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Miami's Expanding Horizons

With 31 Illustrations 22 in Natural Colors

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JUSTIN LOCKE

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With 9 Illustrations in Natural Colors

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With 23 Illustrations

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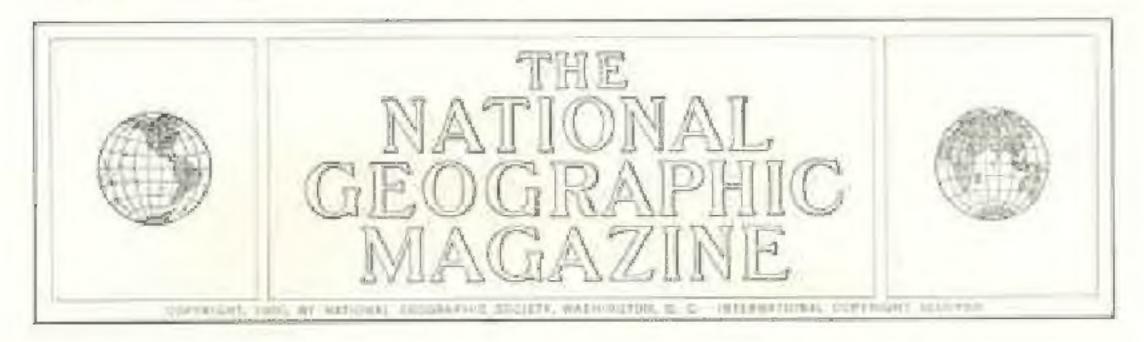
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Miami's Expanding Horizons

BY WILLIAM H. NICHOLAS

IN WEATHERED slacks and sneakers the professor knelt on the deck of the cabin cruiser, working intently over a small object. He looked up, then extended a penknife in my direction. On the open blade rested a small quantity of a yellowish substance.

Have some sea urthin caviar," he fayited. With some misgivings I tasted the offering. It was rich and fatty. He was slightly disappointed at my lack of cothusiasm.

"Too bad it comes in such small amounts," he said. "It's delicious. But one sea urchin yields only about half a teaspoonful. Maybe you would find raw couch more to your taste."

He handed over a slice. To me it had the consistency of a piece of inner tube, with about the same degree of succutence.

"It's better," he said, "in a salad, with vinegar."

New Food Sources in the Sea

The professor, Dr. F. G. Walton Smith, Director of the Marine Laboratory of the University of Miami, turned to eight brouzed young men and a girl who surrounded us.

"There are lots of things in the sea, like urchin roe and couch, which are edible and nourishing," he told his small audience. "Most people simply don't know about them."

Many Floridians are acquainted with the edible qualities of conch, or "conk," serving it in salads, or marinated, or with steaks.

Each of the carnest youngsters carefully examined his own queer loot, retrieved a few moments before from the floor of literayne Bay. They stribbled harriedly in their notebooks. The group was a marine biology class at the University of Miami, abound the Magadopa, one of the Marine Laboratory bouts: anchored off Ragged Key some 10 miles southeast of Miami (page 515).

Thousands of northern visitors were splashing in the surf or lolling on the sands of Miami Beach. Crowds thronged Lincoln Road, its fashionable shopping thoroughfare.

Barkers for sight-seeing and deep-sea fishing boats extolled the merits of their craft to crowds on Miami's Bayfront Park docks. Winter guests clad in fluming sports attire strolled up and down Flagler Street.

Sailbouts darted in and out from private docks of Coconut Grove homes fringing the bay. Automobiles bearing license plates from half the States in the Union parked along Coral Gables' "Miracle Mile," Racing outhusiasts converged on Hialcah Park and its flamingo-dotted oval." The Greater Miami area was living up to its reputation as a vast all-year playground †

But the little marine biology class, poring over sea urchins, filefish, sponges, coral, and shamefaced crabs (so-called because they insist on hiding their faces with their claws), represented a different, and highly audible, note in the Miami symphony.

University Sparks Cultural Life

With half a million permanent residents, and more constantly coming, the Miami area is weaving an unmistakable culture pattern. Spacking this pronounced trend is the astonishing University of Miami.

I drove out toward the University from Coral Gables, passing through its tree-lined streets, and then by broad highways into open countryside. Suddenly I saw before me a streamlined mass of steel, concrete, glass, and

See Florie-Featheren Flaminges of Florida," by W. A. Watts, NATIONAL GEOGRAPHIC MAGAZINE, Junpary, 1941.

† See "Florida-The Fountain of Youth." by John Oliver La Gorce, NATIONAL GEOGRAPHIC MAGAZINE, January, 1950.

fieldstone—a group of speciacular and distinctly modern-type buildings rising in open pineland and subbing shoulders with several low wooden structures resembling army bartucks.

I did not have to look at the sign to identify the scene as the new main campus of the Uni-

versity of Miami (page 581).

Born in the midst of the fabulous Florida land boom of the 20's, and almost wrecked in the collapse and general depression that followed, the University survived hurricanes, both physical and financial, to become one of the Southland's outstanding educational institutions.

The University was chartered in 1925 and opened its doors the next year. The skeleton of a huge building was erected on a 150-acre compus one mile south of Coral Gables' business center, and 966 citizens pleased nearly \$9,000,000 to the fledgling sent of learning.

Then, on September 18, 1926, Miami's worst hurricane struck with devastating fury.*

The land boom collapsed. Nearly all of the pledges went unredeemed. Title to all but 40 acres of the campus melted away.

How the University survived these blows, and the general depression which followed, is a story of a struggle won chiefly through the indomitable courage of its president, then and now Dr. Bowman Foster Aske (page 570).

As recently as 1942 the University was conducting its courses in one three-story building, once a hotel in Coral Gables, and housing its students in an adjoining structure.

Enrollment Today Exceeds 11,000

Today, eight years later, it has an enrollment of some \$1,000 students and operates on three campuses.

The heart and glory of the University of Miami is its main campus of 260 acres, built around the 40 acres left over from the depression, along with its "skeleton" of steel and concrete.

When World War II ended, the main campus was a wild stretch of palmettos and Caribbean pines, transected by an unused tidal cand. To this unprepossessing location wartime barracks from Florida military camps were bauled, other temporary buildings were creeted, and classrooms and administrative offices were installed. Then it was that new building began,

Planners of the University have developed the campus in the spirit of Caribbean Florida's new architecture. All buildings have natural cross circulation of air. Sheltered galleries, walkways, and breezeways flank the outer walls. And they are built to withstand hurricanes. The architecture is startling to an observer accustomed to cloistered halls and ivy-covered walls on a university campus.

The new "dormitories" are not really dormitories at all, but modern apartment houses containing 533 apartments which accommodate from three to seven students each, and smaller units for the married GI student and his family (page 588). The project covers 60 acres of campus fronting on Dixie Highway.

"How much use do the boys make of their electric stoves and refrigerators?" I asked one of the University's administrative officers as we inspected several of these well-furnished

apartments.

"We wondered about that ourselves at first." he answered, "But, surprisingly chough, the kitchen equipment of nearly every one is put to use. Of course the girls do their own cooking, and so do the boys. New boys usually stock up first with things they shouldn't, things their mothers never provided at home. But they soon discover that after all Mother knew something about preparing meals. They find their innovations either cost too much, thus wrecking their budget, or that their meals are not very well balanced. Then they settle down and get along nicely on about \$5 to \$7 a week upiece.

"When half a dozen new boys take an apartment, they require several weeks to iron out their housekeeping routine. Somebody must take out the garbage; beds must be made every day. But they soon learn to apportion

the work."

The first new educational structure to be erected was the Memorial Classroom Building (page 574). Year-round temperature in its airy letture rooms averages 75.2°. Then came the Student Club, bordering and partly overhauging an irregular lake made by widening a portion of the old canal (page 569).

This striking and popular meeting place includes the University cafeteria, a soda bar, lounging and reading rooms, and dancing terraces—a complete community recreation area. With a well-stocked tray from the cafeteria I made my way to one of the pavilious stretching out over the water and are a substantial meal there to the accompaniment of music drifting out from the soda bar's juke hox

All the time this new building was going on, the 23-year-old "skeleton" still rose stark and gaunt. Last auturn the architects turned their attention to it and, with a few adaptations, they used the original concrete and steel framework to erect the most imposing

*See "Men Against the Hurricane," by Andrew H. Brown, National Geographic Macazese, October, 1980.



Minmi Beach's Luxury Hotels in Unbroken Line Front Atlantic's Sund and Surf Hostelries in this winter playground have jumped from 61 to 365 in 20 years. The city plays host to 1,500,000 guests annually. Collins Avenue parallels the beach. Upper left: Bayshore Gall Course.



William Hammakiy

Marine Biologists Chart a Voyage to Study Mysterious Pastures of the Sea

The National Geographic Society and the University of Miami have Jointly branched a long-range research program to study plankton, the dritting meadows of microscopic fedder on which most sea life depends for cristener. Field at operations will be the Atlantic between southern Florida and the Hahamas. Dr. F. G. Walton Smith (lett), head of the Marine Laboratory at University of Miami, directs the study. His associate is Dr. Hillary B. Moore, another top-ranking occanographer on the Laboratory's staff (page 163).

structure on the campus, the Merrick Building (pages 581 and 585).

Ground soon will be broken for the new Law School building. Much of the money for this project is being raised by the law students and faculty members themselves.

A dozen more buildings must rise before the University plant reaches the minimum expectations of its loyal supporters. Meanwhile, the cultural impact of this lusty infant on Miami and, in the field of research, over a much wider area, daily becomes more pronounced.

German Dramatist's Play Presented

Miami, for example, has no legitimate theater. The University supplies that need. The Drama Department last season staged three major productions in its conventional Box Theater and four in its Ring Theater.

with minimum runs of 12 performances each. More than 40,000 persons attend in a single season.

In the Box Theater I saw a presentation of The Ascension of Houndle, one of the plays of Gerhart Hauptmann. German dramatist who received the Nobel Prize for Literature in 1912. More or less rugged fare for the average American theatergoer, the production represented a highly successful effort to bring before a Miami audience a work by a play-wright highly considered on the German-speaking stage but not too well known in the United States.

Later, in the Ring Theater, I saw the opening of Edmond Rostand's Cyrano de Bergerae, with a long-nosed Cyrano worthy of Broadway (page 587). John Behney, a University law student, gave a sterling interpretation of Cyrano before a sparkling first-night audience.



"Don't Fear This Harmless Florida King Snake"

Mrs. John Gozgin, Jr., of the Miami Junior Museum, holds the reptile to demonstrate that it is nothing to be alread of. The Miami Junior League opened the Museum in January, 1950, to acquaint youngsters, particularly newcomers from the North, with subtropical flora and fauna. Soon 3,000 school children a month were pourting through its doors (page \$78).

The Ring, as its name implies, is a circular thrater, with a small stage in the center, no scenery, and a minimum of furniture, props, and lighting. So intimate is the effect of this staging, with the players almost in the laps of the audience, that the onlookers seem to participate in the action.

Fred Koch, Jr., head of the Drama Department, told me of an incident which occurred during one Ring play. At a certain juncture a character lighted a cigarette. One night his lighter failed to work after repeated attempts. Casually, a spectator in the first row held out his own lighter, the actor took a puff, and the play went on. This all seemed such a natural thing to do that no one considered it an interruption.

The idea of the modern arena theater was developed by Glenn Hughes at the University of Washington, Scattle, in 1932. Now New York, Miami Beach, Atlanta, Dallas, and an

increasing number of smaller towns have them.

Growing pains account for the fact that University of Miami's Ring is housed in a tent. The original quarters were entirely too small. Soon a new theater building will arise.

Symphony Presents Eminent Artists

The School of Music plays a leading role in the cultural life of Greater Miami. Of the 90 members of the University of Miami Symphony Orchestra, two-thirds are students and the remainder professional musicians. Last season large audiences heard its nine pairs of concerts, starring as soloists such distinguished artists as Helen Traubel, soprano; Lauritz Melchior, tenor: Jesus Maria Saurona, pianist: Jean Bedetti, cellist; and Frank Edwinn, basso. The University also presented the Budapest String Quartet in tecital.

The University Band (page 576) and the Chorale add to the community's musical fare.



Milaral News Hurana

Bayfront Park's New \$80,000 Band Shell Creates the Illusion of a Giant Sea Shell.

The stage accommodates 260 performers; the orchestra pit, 150 musicians; autiliour seats hold 10,000 persons.

Gimite, a cement and sand mixture, covers the shell frame with a smooth, white finish (page 583).

One wing of the new Merrick Building houses the art galleries, where the Art Department presents frequent showings of loan collections (page 570). I saw a representative group of contemporary American paintings lent by the Whitney Museum of American Art, the Museum of Modern Art, and other well-known galleries.

The University is keenly aware of its proximity to Latin America. Its closest big college and friendly neighbor, even closer than the University of Florida at Gainesville, is Cuba's venerable University of Havana.

More than 140 students from Latin America and two score from Puerto Rico are enrolled at Miami. Intellectually and socially, these boys and girls fit well into the student body from the time of their arrival. At first they naturally tend to clique in a language group, but as they learn to speak English they engage in their share of campus activities.

The University's Hispanic-American Institute is well known for its published Hispanic-American Studies. Inquiries from other universities are numerous and include two received on the same day from such distant points as Wellington, New Zealand, and Tomsk, Siberia. Institute lecturers include prominent South American educators. The University of Mlami boasts the first endowed chair of Human Relations in the country, and it also was the first school to offer a course in Human Relations as an undergraduate major. The chair was established by Mr. and Mrs. Benjamin E. Bronston, of Miami Beach.

The students plunge into discussions of dynamite-laden situations and let off steam by engaging in practical ventures, such as raising eight tons of food and clothing as Christmas gifts last year for two-thirds of Florida's Seminole Indians. Their approach to social problems, however, is that of students and learners, not reformers.

Books by the Truekload

Nothing better illustrates the rapid growth of the University of Minmi than the upbuilding of its library. In 1940 volumes numbered 53.861. Five years later the figure had grown to 85.545. Today books total a quarter of a million on a wide variety of subjects.

While I was making this survey, the librarians were awaiting a shipment of 33,000 volumes purchased from a Boston bookstore. This will be the last general consignment bought, since any more large orders doubtless would contain too many duplicates. The University has contracted to purchase the large collection of Floridiana acquired by Dr. Mark F. Boyd of Tallahassee over a long period of years. Books in this assortment are available now to students upon request. It rivals in importance the Floridiana collections owned by the State Library and the University of Florida.

The University also has a collection of 800 rare Spanish volumes, obtained from a Cali-

fornia estate.

Developing an Improved Battery

In the general field of research the University makes important contributions. The Electronics Research Luboratory, for example, is perfecting a battery to which water need never be added. Copper plates have been substituted for lead. When completed, the battery is permanently scaled, so that it never gives off any noxious gases. Those generated are recombined into water. Value of such a battery for either airplanes or submarines is obvious.

I was shown also a small hearing-aid buttery designed on the same principle. As in the larger butteries, use of copper plates means reduction in weight to half that of a standard battery. More important, it can be recharged

at Inconsequential cost.

The Electronics Research Laboratory is testing an ozone treatment to preserve bananas, citrus fruits potatoes, and other produce during shipment. Surprisingly successful results have been obtained by introducing ozone into refrigerator cars just after they have been loaded with perishables.

Different but also significant approaches are under way on the south campus -an extensive research program in tropical foods.

Mange, guava, Barbados cherry, carissa, and soursop have been made into purees and used to flavor ice cream. The research men themselves constitute a taste panel and sample the new food products to determine whether they like them and whether they serve best as "toppings" or as component parts of ice cream.

Two years ago the Food Research Laboratory worked out a process for making frozen banana puree. This was not easy, for previous processes darkened the bananas and detracted from their salability. A manufacturer of baby foods is successfully using the new method.

Dr. Arthur L. Stahl, Director of the Laboratory, did important work in frozen orange juice concentrates, now so popular all over the country. Today by is testing other juices in the laboratory's miniature plant model of a juice concentrator. I stood by as he went to work on a gallon of pineapple juice, reducing it to a concentrate by evaporation. Then I tasted it after water had been added. It suited me.

Bean Cooking Made Easy

In another building I saw full-sized factory equipment employed in packaging fresh-frozen stringless beans. One innovation is a nipping machine which not only takes off the ends but cuts the beans up into small lengths, so all that remains for the housewife to do is to transfer them from package to cooking utensil.

Only a few of the wartime buildings on the south campus are in use, but the 2,048 acres, under lease from the U.S. Navy, are being utilized as a nucleus for a future School of Tropical Agriculture. Some 5,000 young trees have been set out—avocados, guavas, white and yellow sapotes, lichees, limes and other citrus fruits, mangoes, and sapodillas. For ease in recording data they are planted in exact geometrical patterns, with a block of 10 acres allotted to each species.

Fruit from the trees eventually will afford an ample supply to the Food Technology Department's processing and packaging units.

Studies of a new pest, a voracious beetle named "heilipus," whose larva gorges Itself under the bark of avocado trees with devastiting effect, are expected to lead to the saving of many groves in south Florida and elsewhere.

Identifying the Red Tide

Researches of the Marine Biology Department have gained wide acclaim. For example:

In November, 1946, a so-called "red tide" appeared on the west, or Gulf, coast of southern Florida near Naples. Fishermen reported countless dead and dying 6sh floating in the vicinity and about 10 miles off shore. The sea water was strangely discolored.

By the end of January, 1947, the red tide had moved as far north as the bays and beaches of Fort Myers, Sanibel Island, and near-by areas. During the summer of 1947 the mysterious scourge broke out again, causing even greater losses of fish and reaching north almost to Tarpon Springs. By the end of August it had disappeared and has not returned to date.

Many conflicting theories as to the nature of the red tide were advanced. But the University's Marine Laboratory definitely established the immediate cause. The red dish color and the slimy consistency of the water occurred from the presence of a

previously undescribed microscopic form of life, now known as Gymmodinium brevis. It is little more than one thousandth of an inch across. With the aid of two whiplike threads attached to its tiny body, it moves jerkily through the water. Normally it is present in sea water in harmless quantities of less than 1,000 to the quart.

But during the red tide more than 60 million of the little pests were concentrated in a single quart of sea water, and in such density became violently poisonous to fish.

How or why the abnormal concentration occurs at irregular intervals is still the subject

of searching scientific inquiry.

The Marine Laboratory was established in 1927 as a tropical marine station readily accessible to the educational and scientific centers of the United States. South Florida climate permits study of marine biology under favorable year-round conditions. Terrific competition for food and space on the coral rects and the enormous variety of marine species engaged in this struggle provide a living classroom and workshop. Along Minmi Beach and the Florida Keys the Gulf Stream is but four miles offshore."

I made several trips to the reefs on Marine Biology boats. On one occasion members of a class took turns descending to the floor of Bistayne Bay in a diving behnet (page 575). On the bottom they picked up coral and numerous other types of marine life.

My activities were confined to helping man the air pump and inspecting the specimens retrieved from the bottom. But photographer Justin Locke, more adventurous, donned the helmet himself and enjoyed his brief underwater experience.

The inoffensive marine life thus disturbed by the youthful researchers usually takes its uprooting calmly and makes no fuss when it is hauled aboard. But there are excep-

tions.

Locke was auxious to make a close-up of a few specimens held in the palm of Dr. Charles E. Lane's right hand. The doctor oblightly complied with the request and artistically arranged a sea urchin, some could bits of sponge, a small couch, and a shamefaced crab in his hand, which he held out over the gunwale. Locke was about to release the shutter of his camera when the crab so far forgot its embareasement as to give Dr. Lane a mighty nip in his thumb.

More quickly than the speed camera could record it. Dr. Lane jumped backward, lastily crying "Ouch!" at the same time. Presto! All the specimens, including the crab, were entoute to the bottom of the sea once more.

The researches of the Marine Biology Department are interesting and varied, as a partial list of its publications shows: Hints on Smaking Fish and Other Scalood, Florida Cenwish Research, Biological Aspects of a Potential Sardine Industry in the Caribbean Area, Survey of the Sponge Grounds North of Anclote Light, 1 Fisheries Program for Florida, Atlantic Reef Caribbean and Florida, The Caribbean and Florida, The Camarcial Shrimp Industry of Florida, Check List of the Florida Game and Commercial Fishes.

Lang-range Study of Plankton

Latest scientific investigation of the Marine Biology Department is a joint study with the National Geographic Society of oceanic plankton, the drifting "meadows" of microscopic plant and animal life which sustain most of the fish population of the world (page 564). Work will be conducted on a year-round basis in the Atlantic between southern Florida and the Bahamas.

Under a high-powered microscope the sea creatures to be studied present a weird assortment of odd shapes and often delicately beautiful coloring—a surrealist menageric of infinite variety. The name "plankton" is derived from the Greek word for "wandering," which describes the drifting life of these minute organisms.

To the fishes of the sea, large or small, plankton is as indispensable to survival as the grasses are to the animals which tange the land. When plankton pastures dwindle, the fish are fewer. When they are lush, the fish teem.

How do these plankton meadows materialize? Why do they migrate from time to time? These are two of the many questions to which answers will be sought.

The University's research boat Megalopa (page 575) will periodically spend 24 hours on station to give a round-the-clock check on the way the plankton pastures move up toward the surface with clocklike regularity at night-fall and descend again to lower depths with the coming of day. What causes this mysterious movement? †

False echoes caused by this shift of infinitesimal creatures gave trouble to the Navy's

"See, in the National Generation Manager Corol Castle Builders of Tropic Seas," by Roy Walde Miner, June, 1958, "Life on a Corol Reef," by W. H. Longley, January, 1922; "Treasure House of the Gulf Stream," by John Oliver La Gorce, January, 1921.

See "Exploring the Mal-Atlantic Ridge" by Manrice Ewing, Narrowat Geographic Macazine, Sep-

tember, 1945,



Lokeside Pavilions of U. of Mianu's Student Club Luce Undergrads All Year Round
The streamlined recreation center on the Main Campus at Coral Gables. Florida, houses a large catetein, snack
bar, lounge rooms, and dancing areas.



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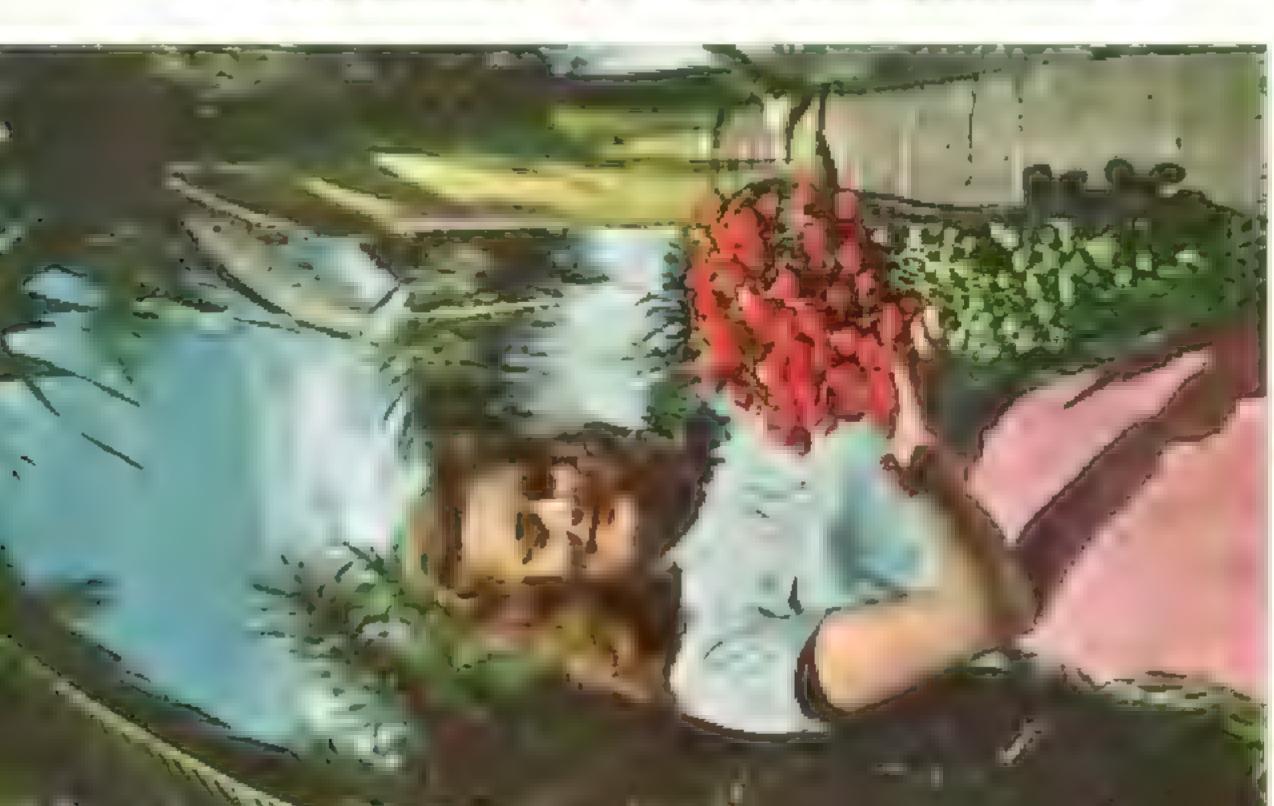
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electronic sound-ranging matraments during World War II sel marine minting

Results of the study will, when completed, become available both in norterinian articles in the Naturest. Geographere Magaziese and in technical reports to be contributed to world knowledge through universities and colerges at home and a road.

The Medical Research Last of the University functions in cooperation with the U.S. Veterans Administration and occupies quarters in the bage Veterans Hospital In Carol Gables, formerly the fashionable Miami-Bitmore Hotel. The Unit is built up as a mickess for a school of medicine, long a dream

at the University of Mann

Although the administrative office is lost in a corner of the ornate ballroom of the furner lanel, researches are conducted in modern laheratories completed this year. A corps of enument researchers now is engaged in studies of compounds capable of probability the action of advension searched by the adrenal glands; compounds effective as anti-dotes to arbitrates introduced into the annual body is everywers of skeping pills; the effect of various drugs when used with insular; transplantation of endocrane glands; effect of shock on kidneys; and causes of various tropical diseases

Somewhat exercibelized with the scope of the University Sactivities, its mercoric growth and its impact on Marni, I sought out Dr. Ashe to learn his views on the University's

role in this ever-growing area.

Students from 46 States, 20 Countries

The University maintains a president's modern office in downtown Mann's their cours of the Lu Pont, Here also is the large rount in which meetings of the Hoard of Trustees are held when the Love through dening is a lower way location.

that Or. Ashe's principal almitistrative work is performed in the Administration Building, erected on the main campus by combining two idd Army barracks. It was

here that I fold a local

"We have now been in existen e 24 years." he said. "We have some ",000 full-time students from 46 States and 20 countries and approximately 2,000 students in the evening Adult Division.

"We have built on a permunant and well-placed campus of 200 acres several major educational buildings several minor ones, and no dero durant are facilities. In addition to regular instruction in the C flege of Arts and Sciences, the School of Law, the School of

Education, the School of Engineering, the school of Music, and the Caudonte School, we have developed important research activities. These are in the feel is of temperal agriculture and horticulture, experimental methods, marine biology, and several of the laborature sciences.

'Over the next lew years we expect to push farther many of these insic researches and to and several udditional schools. We must build a number of new educational buildings on the main campus, including a great new library building. Our library is growing of a terrific rate. We must have the first large unit of a spacious scence building, a large an noming, and adequate quarters for our stodents in music, drum, and art.

"Then we need adequate endowments to ulp support the University. We are not tax-supported and earn most of our judgme.

"The community is growing very top felly, and has chapped as that ther from purely a winter result to a commer fall and industrees metropoles. Agriculture in the back country has multiplied promptly ten times in the last 20 years.

"It apprecently will be necessary for this University to become quite large. We can sider the first 24 years a period in which the University was established. The next few years should be a period of development

and improvement."

The decisiveness with which Dr. Ashabummed up his views, his past record as a can unleadayed by formulable problems, and the colder of the men who back him up, his progressive Board of Trustees,* combined to inspire in me the feeling that even bigger dings are in store for the University of Miami

Although the University's influence is ware spread, it would be a mistake to assume that the responsible for all of Mismi's cultural life.

life. For example:

An outstanding musical organization in the area is the Miane' Civic Music Association but the last 15 years its president has been Charles in Crail in in whose honor the areas towest public recreation park on key linearyne has been named (page 592).

This removeration assemblage of numer layers.

has a membership of 2 200 and a long waiting last. Six or seven connects by world-famed artists are presented each season. No not connected with the association receives a salary. Last season artists appearing were the Robert Shaw Chernle; the Mariemus Dance Lasenber Else Stlammi septimo; Benno Maise, witsch, planist; the Trieste Chamber Music Trio; Benno Rabinoff, violinist; and Jussi Bjorrling, tenur. Concerts are held in the Manor Potson High School And torum.

Minini Hears Grand Opera

The Opera Guild of Morni, under the artistic direction and general management of Dr. Arturo Di Fdippi, a member of the University of Manni faculty, has brought grand

opera to Miami for ten seasons.

Mises music lovers contribute to its support, subscriptions ranging from \$2,000 down to \$10 annually. Mismi sengers and music students from the University make up the chords and supporting casts: lead roles are sung by Metro soltan Opera stars imported for the occasion.

Last year Carmen, L'Alter d'Amore, and I Paglencci compled with the Secret of Susanne

were presented,

Like any other rivic opera arganization, the Minni group constantly seeks funds to keep solvent. Dr. Di Filippi surmanned one crisis last season when he feels gly proclaimed in the newspapers that a horse faced teller in Mami than a singer, and that he wished he were a lunse.

Is very body would dress up and come to see me tun," he added. "I would then neigh out an operate codener, with a smort at the end, that would bring me in a subsidy for the Opera Smill Last Lacrely need. The what an operatio and that would be!"

The very next cay Dr. Di Filippi teccived a check for \$25 from a sympathetic reader who observed. 'Who could say neigh to an appeal such as yours?' Other shoscriptions

full overd to save the day.

Then there is the Philbarmen's Swiety of Greacer Mismi, organized in Coral Guides, which makes it a point to feature south

plopula artists and composers

But a pleasant salenth north of Miant, also makes a contribution to the area's cultural life. A Catholic women's college of I betal life and sciences, it is celebrating this year the tenth anniversary of its founding.

Barry's Christmas eratorio and page mt. Christman Trypha k, and its Passion oratorio for Palm Sunday, both composed by the head of its Department of Masic, attract anthonics of more than 1,000. Once a year the Parameter Department stages a serious play, such as The Song of Bernatettes in lighter wein, they give plays such as Conferella for the chi dren of the community.

About 15 percent of Barry's 289 students are from Latin America and Fuerto Rico They don the fast rostomes of their countries to parth ipate in Greater Miami's annual Pan-

American Day activities (page 589).

the campus is famous for as tropical bearty, highlighted by a long double row of towering royal pulsas which extend westward from the entrance to a tiny chapel at the other end, and by brilliant, multimed bougainvilles which overhungs the façades of a personals one detailories.

become the thousand who have moved permanently to the Manni area in postwar years are many children, studdenly introduced to a sustropical region totally foreign to them be nost instances their parents for i life just as now and home are that to them by their young sons and daughters.

For tettier y this attachou, Almai & Jundor Lengthe opened a Junior Museum 1. I form. By May school children were visiting it at the rate of more than 3,000 a month. Also, the trussum's mutural bistory curator had lectured to 11,000 children in their schools.

A well informed young women recompensed us the migh the reconverted out manifor which houses the exhibits. Towns take from an hour to an hor and a had

Sparkles Sturs of Junior Museum

Beginning in the Early Horida Man from visitors move through the Se agode Galle, always popular with the youngstors; passion uph a natural history eatlery where Spur-Mes, a ring-tailed monkey as thout rings on her tail, is a source of constant delight; and the uph other trains devoted to primitive Arman crafts, lattn-American and Oriental cursos and a coral exhibit. Next year the Museum will have a marine life exhibit

In pearly every more, to river youthful aftertion, something alive is exhibited, factioning parakeets, tree smals and even snake in well protected cases. Hut Sparkles' only real rival for the children's affections is Mark the grant, which is kept out in the year. Indicators are entabliastic over the whole factormative visual project (page 565).

For students and brees of borticalture a visit to Microus Enirchald Tropical Garden is an experience not to be duplicated anywhere in the United States (pages 572-3)



"He Carved a Crea Chy from a Jones" Cal Graham I sher Memorial

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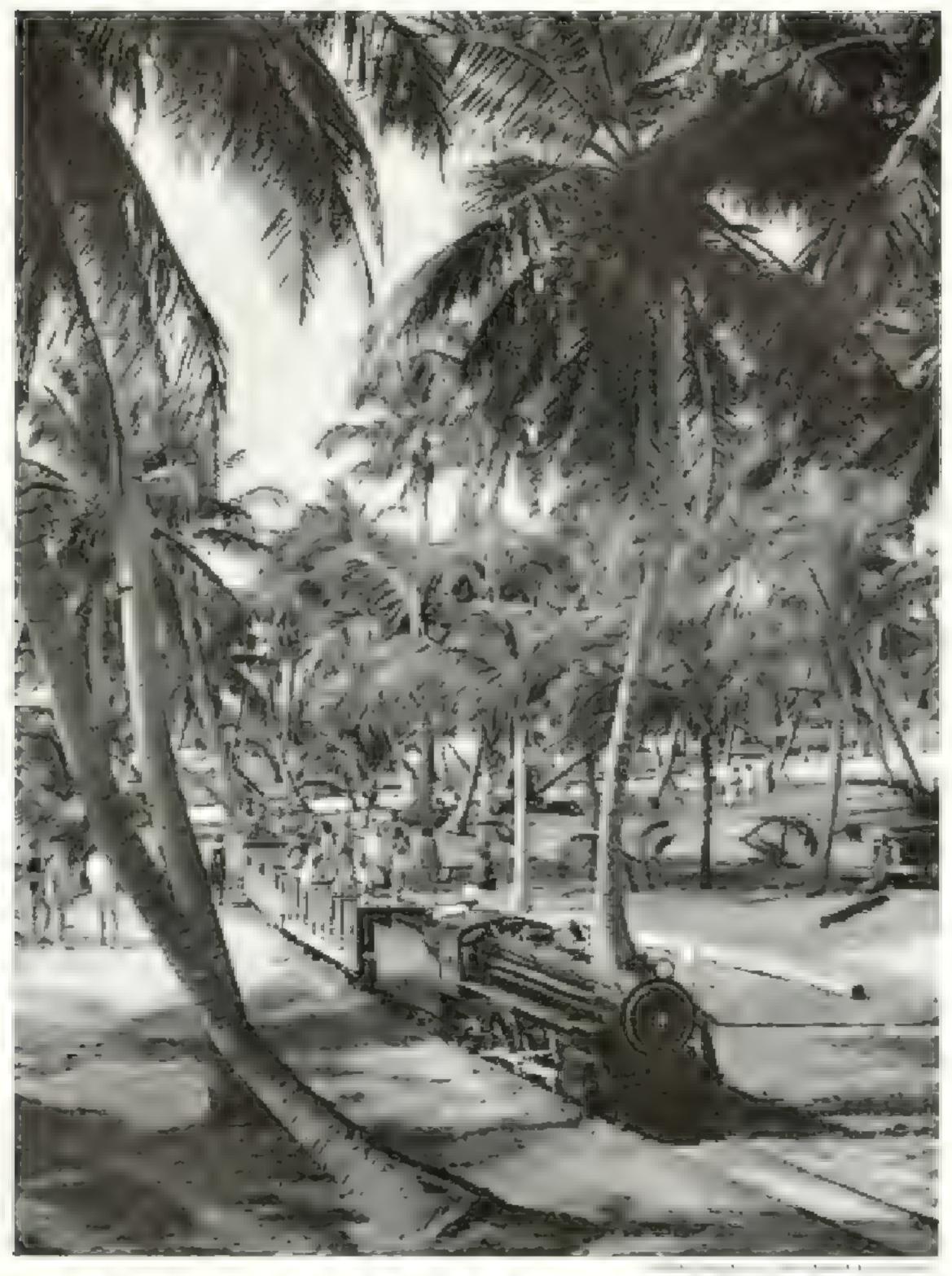
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Biscourse Roy. Attacks & Golf Redicted Winds Tomographic Convenience Presents India approach to the control of the process of the process of a control of the process of the control of the process of the control of the process of the control of th

The Montgomery Museum and Library on he grounds hasses the Brett Memorial Library of more than 1,000 haskes no hotony, northeriture, and related subjects. Here too is exhausted a large name of articles made from palms from all parts of the Itapics—aloweres, careed coconat shells, rapurate sats, musica, instruments, fine sail, loths, fish nots, basketwork, and dolls.

Not far away is Matheson Pack, stretching retween the main roadway from Cotal Gables and the shore line of Biscayne Bay. Its palm-shaded butturg beach and pleasant to pical picnic grounds attract thousands of Music ans

the year round

Opposite the park, on the other side of the roadway, has a large undeveloped tract hatosat.

dimitive tropical growth in the Minusi arca.

In a natural state for automists to study.

Face Litting in Bayfront Park

Every visitor to Miami inspects Bayfront lack soon after strival. It is in the fare-ground of every skyline picture made from the bay. But changes have been and are seng made here to alleviate Miami's cultural

growing pains (page 580).

Construction of a \$1,000,000 Miami Measonal Library, a two-story building of classical design faced in Georgia numble, is underway, Fully yards off, a new \$50,000 landstand has been completed (page 500). The front of the new structure gives the general interesion of a giant sea shelt. The huge stage are month test more than 200 performers, and the orchestra pit has space for a 150-plece orchestra.

Here free hand concerts are heard twine a week during winter and spring and once a week in autumn. Miam, boasts that from the other 1 1949, to April 1, 1950, not a single concert was cancered because of rain or

cold weather!

Another recent Marri transformation has taken place on Dinner Key, once a pairi--haded but of land a short distance offshore

from Cocenat Grove.

I sayne Bay's original settlement was in Correct Green, centering are and Dr. Horace Perter's store, opered in 1870. By 1873 the town had a post office. The original settlers often puddled over to Dinner Key for picni limiers, hence its name. Daring World World the War Department foled in the intervening shall we water on I made the key part of the minimal of Later it become an active mival trise.

Then I an American Airways orranged to

take the key as its International Marine base scane of operations of the company's famous dying basis to Caha, the Bahanus and South America. During World Wur H it was turned but a cadet training school where Pan American's seasoned operators taught American and English flying cadets has garion.

Now the city of Miami has acquired Driner Key and transformed it into a convention site, with an Preposition Building serving 10,000 persons and containing a large restaurant While I was in Miami, 10,000 Kissmians descended on Diamer Key for their pantal convention. The city also is building a municipal yacht basin at the key

A stadiom, primarily for baseball, seating 9 500 persons, has been considered at a cost of more than \$1,000,000. For the first time in stadiom construction in the United States, architects covered it with a cantilever real.

Most popular of all Greater Mami's recent developments for the pleasure of permanent residents and winter guests alike to Crandon Park on Key Bistavan. Cost of the park, and the 4-mile Rickenbacker Conseway from the majuland, exceeded \$10,000,000

Heirs of the Lite Dr. W. J. Matheson decord the mech half of Key Biscayne to Pade County for public park use. The tract was named for Crarles H. Crandon, long a member of the Board of County Commissioners of Dade County, in which Miami is located, and 6 treass worker for the community's livin betterment. Development was delayed by World War H. Park and causeway were formally opened on November 9, 1947.

Fishermen Line Bridge Rails

one sums May day, passing stores of fisher men, some of whom were actually catching fish from the railings of the unages. Located just 10 number from downtown Mirmi, the park stretches along the key for more than two moles. Coccout passes flank the touchasy I turned into one of the huge specially made parking areas, left my automable, and strolled to the charming ocean-front promenade and palm-shaded beach, which attracts shousands of bathers. Miamians point out that average winter water temperature is 72.

typening out in fan shape, on either side of the purk's central esplanade, is a grout of haddings housing of nes and shape, wellordered refreshment stands, and bathhouses ecuipped with lockers and rest to ms.

Ope of the most popular frait res is a ministure so nic radiously which winds through one and a half miles of tropical jungar (of posite) Bearing the imposing name of lineague bay. At antic & Galf Railr and, the hap has an even more impacting his of 30 honorary vice particular relative

Ashe, in charge of cowcatchers: Bowman F, Ashe, in charge of cowcatchers: Bong Crestoy, section gangs; Donglas Fairbanks, whistle stops; David hairchild, observation care; Gabert Gresvenor, rails; H. V. Katterborn, taborees, Capt habie Rokenbacker, traffe; Juan Trippe, communications; Robert R. Young, tolling stock; and, only feminine official, Lily Pous, whistles

Meteorie Growth of Miami Beach

Most phenomenal growth in the entire worth Florida area has taken place at Mianu lieach, a strip embracing 7.1 square niles of tailor, which has to the east directly across Biscome Bay from Manui and fronts on the Atlantic Ocean The city of Mianui Beach also includes a group of man-made islands in Biscoyne Bay Ipage \$401. Three large can-eways connect Manui Beach with the mainland of Mianui, two free and one toll

In 1915 the town was incorporated. Teslay it is one of the world's greatest winter playing pounds. In 1915 assessed valuation of real property was less than a quarter of a million.

do lars, today it is \$250,000,0001

It was a constant beat had fit to a constant beat fit one could stay in a collected boxed every day for a year type 5631. Nine more, under construction, will broke the total to 374. In a lifetion, there are 1,500 apartment brokes

Since World Was II Mianal Boach has entertained about 1 500,000 grees each year. They enjoy at a only an 8-independent from beach, but 15 parks, playgrands, and recreation centers, 135 private and public swimming poly; two public and two private 18-hale golf centers. 15 motion-picture theaters; and 431 esta a jaments breased to serve food.

In a small park and playgrams for children at Alten Road and Lakeview Itrive stands a memorial of bronze and primite to Carl Graham dislar, the man whose vision, coarage, and relations built a great allegent resort its inscription succinctly tells the stary of Miand Beach: 'He Carved a firest City from a Jungle' (page 5.2), hefore his leath in 1939 Fisher had engineers for the castern seatoust and had lived to see his dream come true,

Miami Brach as a less of the recommendation of this one trails on an island of shore in the eye, buy to another intrepled Florida pioneer Both island and memorial were raised by pioneer

developer Carl Fisher to the memory of Henry M. Flagger, who be sucht the railroad to Manual in 1895, and continued it on to

Key West in 1912,

The line to Key West was partially destroyed in the vicious hurricane of 1935. Show then it has been converted into the scena Overseas Highway, over a large partial of original stone and concrete trestlework, from Florida key to key, to the doorway of Key West. Thousands of victors amongle enjoy this automobile "voyage"

Flaglet's arder in developing south Floridatored Fishet's enthasiasm and prompted him to present the striking memorial to his own

new city (page 590).

For capit growth of Misnel Beach as a resurt center tends to obscure its cultural aspects, but they are demistricably present

Twenty-four years ago, for example, the Committee of the Hundred was framed. Members were executives of large and small curporations from the North and Midwes who had built winter bomes on Minna Beach and adjacent islands. They wanted to form foundships in their adopted seasonal community among men with common interests.

They acquired a clabba use which include is an auditorium. Membership today is limited to 300. Every Tuesday evening over a period of some 15 weeks in the winter season the group gathers to hear prominent speakers brought from all over the country to address them on national and international subjects.

New Hospitals in Wami Area

In postwar years Miami has taken rapid strides to enlarge its bospital facilities. Today Date Lounty has 21 hospitals with 2,092 beds and 326 bassaiets. The healthful year round comate and Gulf Stream-chapsed air are highly beneficial to heart cases especially, who come from fat and near

Largest in the area is the 600-led Jackson Memorial Hospital, recently taken over by the county and well on at way to beer thing a modern medical cent r. A new \$2,500,000 ladding is being added to the plant, and State and hedroid for installation of a 100-bed psychiatric word. A Latin-A pericunwing is seen to be added.

Next largest haspital is the Veterans Aministration Hospital, formerly the vi-Miani-Bitmore Hotel, in Coral Gables

The bands Florida Children's Hospital, for boys and girls under 10 and for polic victims of all uges, opened last March. The main building was erected at a cost of \$875,000.

The new \$6,000,000 Mercy Hospital, Indit



Medern Buesde Chillies a Dispositional Scott Skeleton" to book L' on Moores Medick Building



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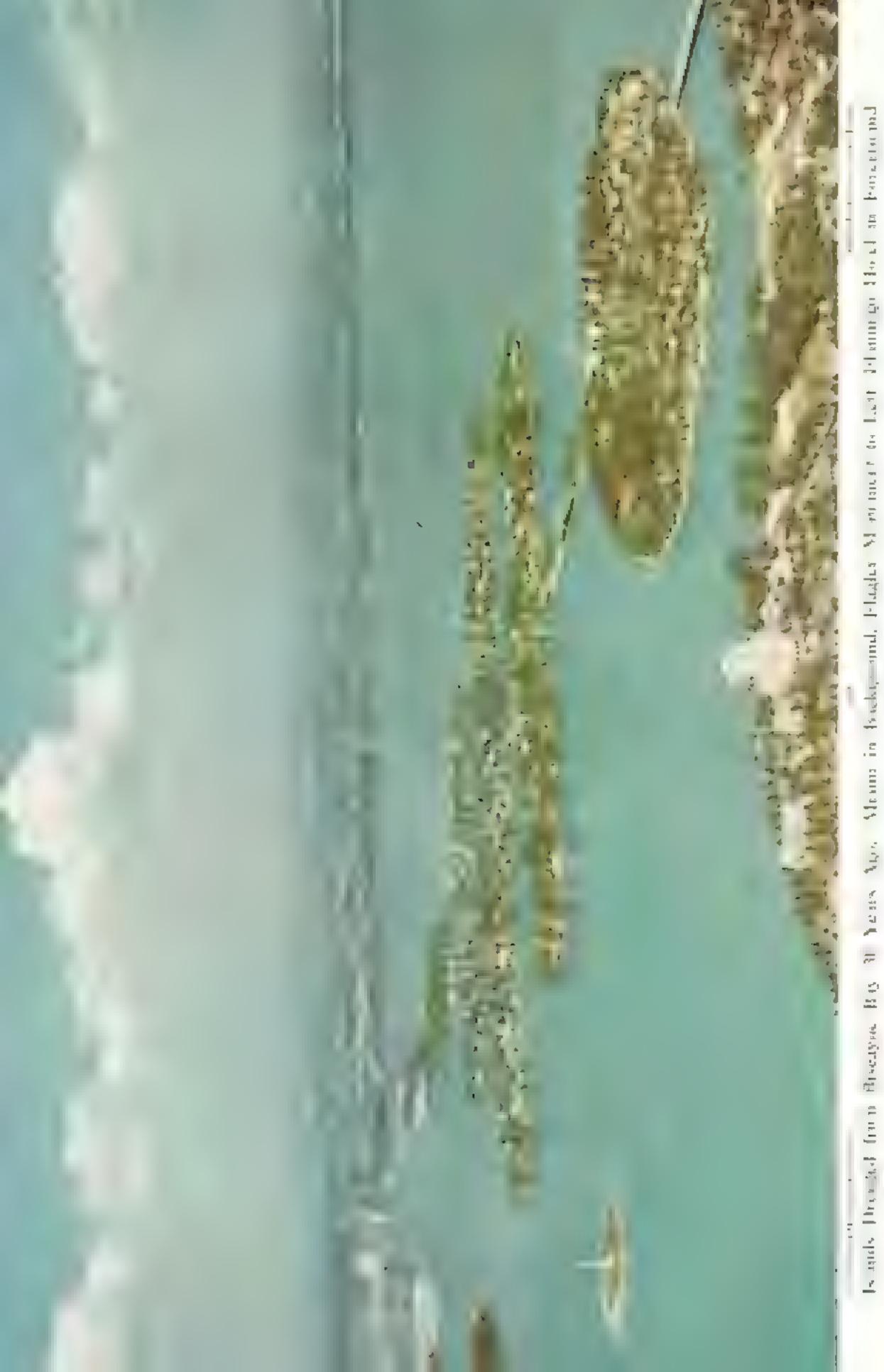
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Holl until Placed May we and Saray Parakeets Live Uneaged a Manus Parast Junge William International Control of the Control of the Saray S

on land formerly a part of Vizcaya, the James Deering harate (pages 505-504), is soon to be deducated. Over-all plans tall for a 304-led hospital, nerses training a bool and frome, and clinical buildings.

One of the Life Carl G. Fisher's Misses. Beach lerds, the Nautilus, which was items-formed into a Veterans Hospital, now has been turned over to a poopposit group of trustees and renamed Mr. Sinci. It has 285 beds and 50 bassmets.

Another new and well-equipped bospital is Doctors, built by a group of physicians on preparty adjacent to the University of Manni

Individual private scientific research proceeds in many quarters in the area for example, about 10 miles south of Mio-William E. Haust has conducted a serpenturion for the past two years. Last May be brought leak from India 370 a bras to add to his stack of Indian, buy stian, and spitting coheas, and many other varieties to accept to

To maintain his serpentarium, litaatichers admission to the public, but he is more interested in the scientific aspects of smale rassing, including the extraction of other venus for use in section

Immune to Colica Bites

In September, 1948, Baset started a program of self immunication to colors bites. He injected distilled raw colors venum into 13s blood, beginning with a ruld dose and gradually increasing at. In August, 1949 a colorabit him without appreciable effect.

When he first started his program, he took a diluted injection every few hours. Now that he is armune, he finds one exert three mouths is sufficient to keep han in that protected state.

The Minni area also beasts a parrot jurcle of a monkey jungle. Both are compercial ventures, but prither could exist anywhere except in a salutopical area.

Screek of brilliantly planted parents fly free in their sauch my, some ne aning to pose on spectators' shoulders and arms to have their pictures made (upposite). Parakeets and a flock of flashing damagos also dwell within the limits of this preserve

Many varieties of primates, including Rock of Cabraltan portkeys, balooms, champanages elitions, and mandrills, live in the namely jungle.

thingerous variether are cuffied. By the other groups of theses monkeys turns the tables on speciators here. Visitors stroll through cared passagerous with the theses monkeys on the conside, looking in at the strange harmans behind the wires.

For see another private scientale venture, i collect on Mr. Charles Crandon, whose manifold interests and ide the Miami Civic Massaciation, occurrent of the Dade County park system, expert woodworking, and avocada and mango raising, all in addition to his personal business enterprises,

I called to look into still another venture of this versatile gentleman—hts earthworm-ruising project!

Earthworms Boon to Avocado Treev

As I entered the ample grounds surrounding his hope in Coral Gables. I was impress to by the grove of heavily laden mange and avocado trees. Hencath each was a much of grass, weeds, and leaves

"I never spray my trees," Mr. Cramknade "My earthworms down under that with have patheter beatthy. When I first planted the trees four years ago, the sail here was white said and I had to blast holes for the mots. Look at it now."

He palled away the mul, h to reveal the dath soil, enriched by exchange mastings We went to the rest of the property. Here were huge compost piles, each with a sprinkler system over it to keep the compost sprincipally lenves, pine needles, and garbage—no st in dry weather.

"We re raising millions of carthworms here." Mr. Crandor said. "But we have to ward for their one by, the mole cricket. It lives on them. It's larger than a cricket and barrows into the pround very fast."

lacrything growing on the property is enriched with earthwarm casings in heling rase, ashes and Chinese in her trees.

Texts Against Florida Sunshine

For many years General Abstors Corporation has maditained a Research Laboratories Division in Migri under the direction of the Latt M. DeNoon, in cooperation with the widors our timed scientist at I inventor by Charles Franklin Kettering

I visited the laboratories pose the International Airport, where must of the work Is done out of doors. He De Youn also operates here the South of rada Test Servac, for other maintiful torets. A bost of materials is exposed to weathering and fested in the Utable som

brown a weathering studipoint, few other places in the work have as interesting a climate as southern Florida. When a refrigerator manning there, for example, can produce an other (nish on his product that will stand tests in Mann, he can be sure that if will stand apparywhere in the United States.



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Vizcaya: An Italian Palazzo in Miami

By WILL AM H. NICTIONAS

With Illustrations by Notional Geographic Phetographer Justin Locke

O' CHRISTMAS Day 1916, when the late James Descrit a opened the doors of Vizcaya in Miami, Florida, he saw a dream come true. This American business genius had created in the New World an Itaaan palazzo, comparable only to historic transs-palazzo of the Joth contury.

By ase of historic example and antique faintsbings, and with extraordinary veralty, he had achieved a triumph in recalling a sphien uge of art and architecture. His new home reflected the space of of cecorates. Roman and Venetian residences, furnished in its entirety, as they were, in the chief decorative styles of more than four contories ago.

Mr. Decree, or international Harvester Company executive, but trave ed widely abroad. For 25 years be had collected in Europe are natectural backge actus, rare percent for inture, textules, sould ture, and ceramics. To enshrine these he hult Vizzaya, as home total his death in 1925. His palazzo on Biscayae Bay became a repository of Italian decorative art unexcelled in America. His ort-bying heirs have loop it so to this

An army of I dies artistus enaposed Italian stotue itters, cabinetinasers, plasterers painters, and gifted landscape gareeners built becays, their labors extending over five years. Mr. Desring purchased marrisg quartication the quit, for the palme walls. Little steel was used in construction.

Agents bought roots of whole Cuban villages, replacing them with modern materials, to obtain the weathers., land-shape i of I ties for the palazzo roofs (page 598).

Freasures from Historie Passees

The architects, F. Burrall Hoffman, J. Paul Chaffin, designed the bundouz to a chadre the remotability collection of sartique doneways, wall panels, and cedings removed from Venetian. Romon, and Milanese palaces

Me Deemer lease, large warehouses in which he and the architects over and over again, experience table hid out and fun island room after room. The height of the second flor was determined by the size of a full entranceway, with marble frame and wroughtiren gates, confecting the palazza teamoun and the potio. This rateway came from the palaze huilt for Niccoló Fisani and become. Vetor, daring Venetian admirals of the 14th

century when Venice was a great sea power

Victory is formal Italian gardens were planned to rival in detail and a genuity the landscape masterperes of the Villa Albanian Rope or the Villa a laste in Try if

How much die, Vizzaya and its famishings cost? Many estimates of the tumber of millions of dollars spent on the pure bave been made, hat all have been pure guesses. Mr. Deering, who died a bachelor, never let it e known. What he was interested in was adity and artistic perfection.

No number what the cost, I salays could not be reproduced today. No I meet is it permissible to remove but treasures permanently from European or unities.

Spunish in Name, Italian in Spirit

Aith agh Vizaya is Italian in spirit, the name is Spanish, after the same province of Biscay from which Biscayne Bay takes its name. The laters is and V are virtually interchangeable in the Spanish alphabet.

The crest above the bage entrance to the grounds on South Mami Avenue is a model of he caractel lizeway one of many successive royal Spanish ships to bear that name.

When Jasan Lacke, National Geographic staff photographer, and I visited Vizonva, the National Geographic Society had been grace ously accorded permission to make, for the first time, other phytographs of the palazzo.

From the entraine we drive beneath mediahung trepical trees for several hundred feet.
Then we turned also another tree-arched driveway and come to the oval-shaped forecourt,
hasing himself remains the forms at its entrance. On our right a supern 17th-century
ga tway of curved pink much le and 1strian
stone, framed a coral, led to an adjacent
court. This gateway came from the Palazzo
Beribart on in Verona, lathing thater.

Stepping through the wrought-from entrance to the palace, we faced a fountain group made up at a Roman bath of yellow mather, surmanted by a 17th-century Italian statue of Baccus goal of white, and flanked by easyed infinite astribe sea management.

Presence of the socient Roman bath is not incongruens. Pempell and Herculaneum.

1 - 1 - 1 - butted in lava during an engation of his area for the accient art thus revealed.

gave a compelling Impactus to revival in Italy of classic firesk and Roman resign, totally

forgotten during the Dark Ages.

The fall, graceful duces at either end of the loggia once stond in the year bale of the Hilled Beautharmans in Page 1 to 5 was the palace occupied by Napalem's stepson has gene, son of Jesephine and a Martinique planter

Through the doorway on our left we passed is to the entrance halk. Its outstanding feeture s its hard-colored wood-block wallpapers ma to by Joseph Bufour of Parts thout 1814.

Chilirin Al sthorogram is the title of the set. printed for shades of gray, with 24 strips depicting the Yengenice of Ceres, Phaethem and Nullo, Venus and Diana, the Judgment of Paris, Three and the Seasons, and the Muses It is the only known itufour set of this patters in Astella

The literary, or Adam room, shows the classic design in furniture developed by the Asken brothers of England. The brothers tended widely in Italy during the classic recival, and a made a professed effect upon them This is reflected particularly in a fine Corinthias quartel, over which an applicat Rog in massac his been set but the wall.

A more set of chairs in this rot at there belonged to Pauline, sister of Napoleon, who weel the Roman prince Camilla Borghese in 1803 and promptly returnshed his 200-yearand pulling in the classic style.

19th-century Salan

The style of Vizcava's 18th century sal wa is Lettis XV, particularly as it was developed. in Italy (page 601). The size of the room was determined by the plaster ording, which ince gracer the Palazza Rossi in Venice.

French design then was making its impact en Italian style, and view wersa. Plasse deconative stales reflect the frend from the ern if denified, courtly Louis NIV, builder of Versailles, in the lonely but artificial and r to a designs which developed under his great-grandson, Louis X3, and flourished to a lever extent ander Lettis XVI and Marie Apprinette

Riscoco comes from Linux 1. andle, as "no kwark trade or a lar a lavish risture of the rich kills. pietred shellwork, scrotts, and fel age

the farmed a continuation of raceco in the music room. Ornete refling and paneled, painted canvas walls come out of a Milanese pagare. The lavishly destroted spotted was built in 1645 by Horatius Albana; the gib ed wither is a century later; the harp is corved and decorated in the fil style.

Two megnificent mare term time back to the period of the Italian Remaissance.

One, the great Remaissance hall, we entired by a small disrway, case to lefend, for in the 16th century large houses still were but I somewhat in the manner of fatnesses. Our end of the hall is taken up by a huge swince chimney piece, a notable example of French Rennissance sculpture (page 693).

Most not this of the well haspings is an Italian tapestry, we sen about 1550 for Duke Excule II of Ferrara, depicting Hercules killing the Nemean Bon. Was the weaver flittering the Duke? Excole is Italian for there

19 300

A massive 15th century Italian shieldeard in the other Requissance room, the hampet hall, once held thurch vestments (page \$99).

The landsome 15th sentury Italian chira cyflece is carved of dark sandstone from bills near Elemence, in the sixte of sculpt as in the cent of Lineaxa de' Medici,

The east loggra is distitute ished but its hage cedan doors, encrusted with Improve then and justalled in marble features. Thirts and frances came from an old palace in Rome which was acquired by the Torbanias great

Roman harking family.

The intricate was ight-iron chandeller of the upstairs during room was removed from an Italian p. lace. The will number are by Chaude Joseph Vernet, French painter of marine scenes for Louis XV. A mannel is decembed in larguer in the Chinese manner (page (OD)

Vizcava's gardens, in formal Italian treatment, are undaplicated in America (power-597, 602, and 604). With the pulazzo at one grow and a small casino upon a mound at the other, they are conceived as a vast room walled in with formal vegetation and forests

The floor of this garden too it is no ornamental and diversified accordant of beds and plats, with trimmed horders and pleasunt pa tes, flanked by statues and bountains. No from a vagetation out of keeping with Habian garriens has been permitted to introde.

Str lling through the gardens, we came at length to the sea wall. We broken out upon r large stone barge breakwater, embellished with statues and pulars (page 598). All the spul, iture on the harge was designed by A. Stitling Calder seminant American sculptut,

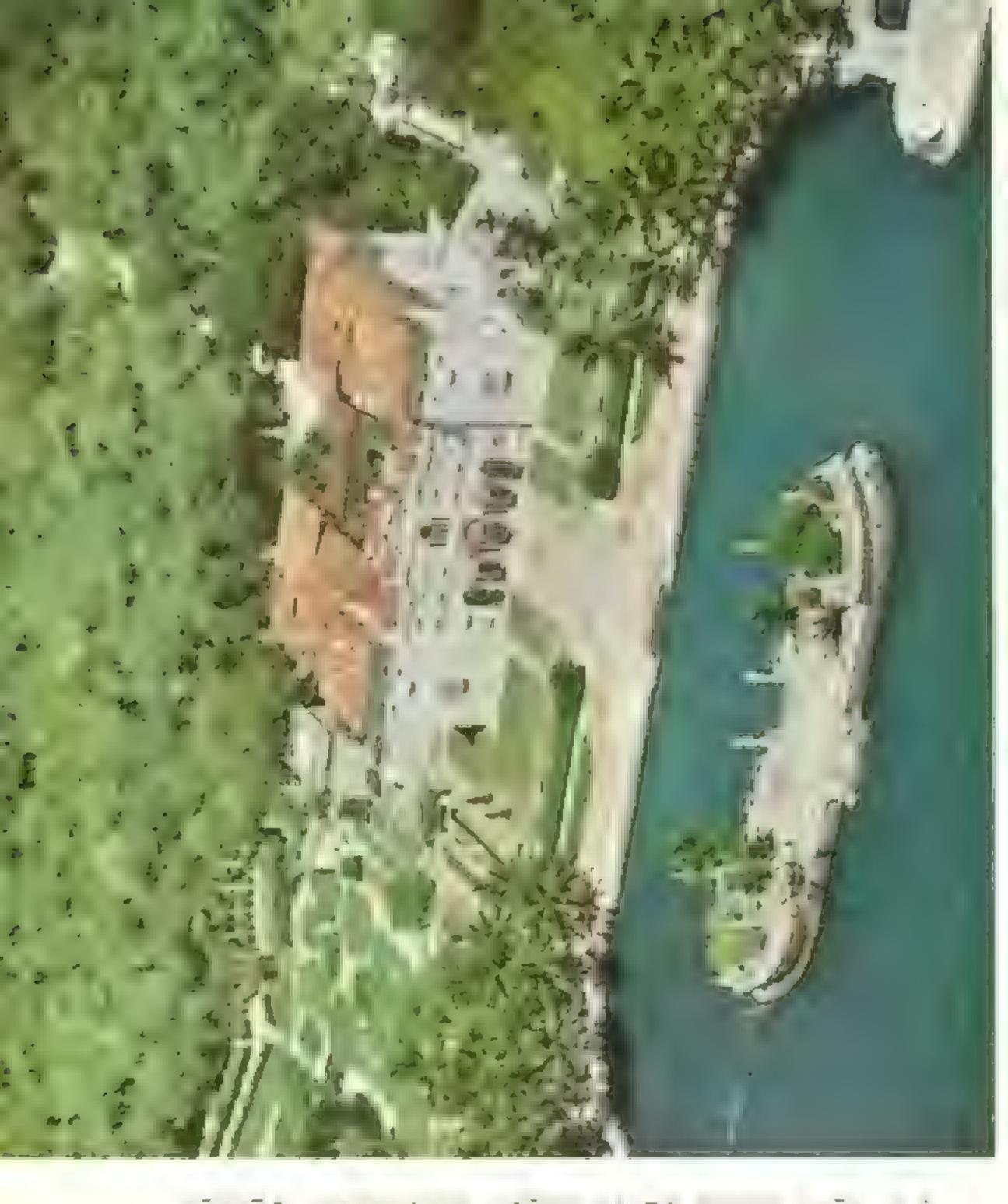
As in the pulazzo Beelf and as in the formal gardens, the barge carries out in conspicuous detail Mr. Heering's aim to re-create faithfully on American soil on Italian pulation.

The citizens of Mann and all soft term The fide have good reason indeed to be proud of majestic and artistic Vixenya.



Verence Reflects the Grandent of an Italian Politzer in a Miama Settent

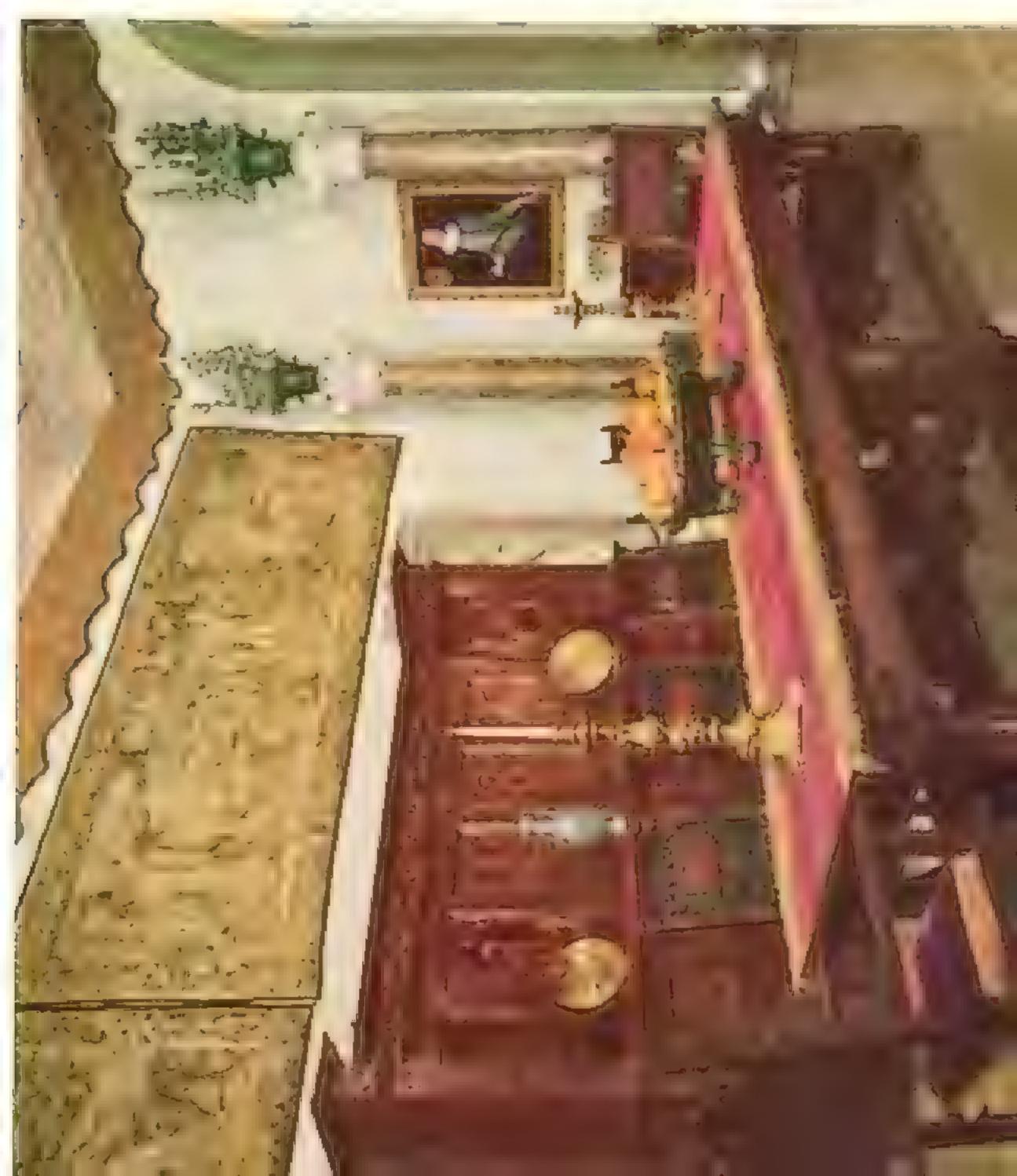
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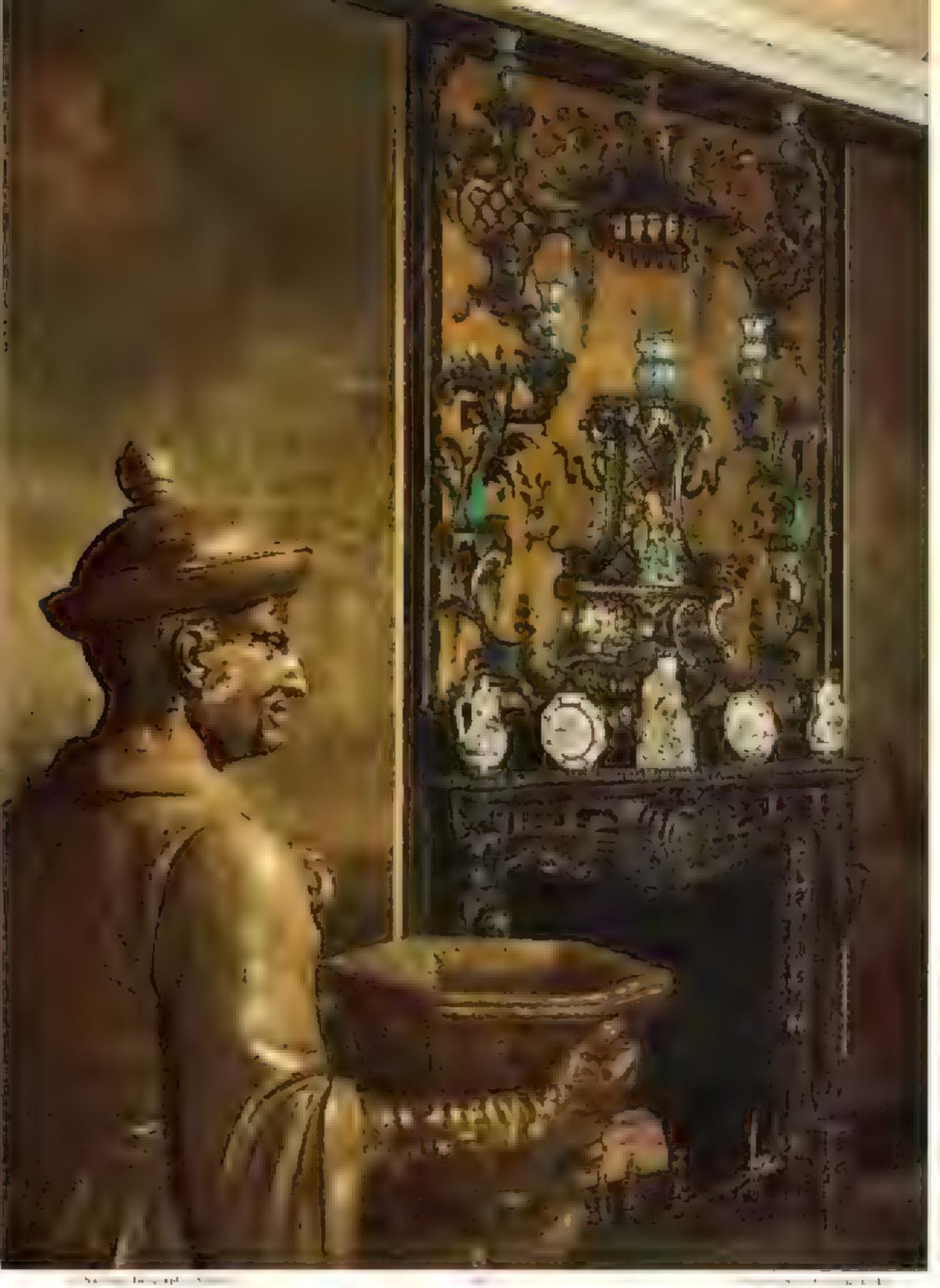


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An Amiert Roman Serendugh Serves as a Garden Francisco Basin



Baltic Cruise of the Caribbee

By CARLETON MITCHIELL

THEN a phoisant dream comes true,

No somer had my wife Zili and I returned to Annapolis after cruising the islands of the Caribbean than we began to dream about the skerries (little islands) of the Babic.

"It's crid up there," warned one friend. "Piletage is difficult," said another,

"There are unswept mines," contributed a third.

"The Cold War will engulf you," added a changs.

But the idea persisted. We thought of the archipelagi around Stockholm, bundreds of little islands flowering in the brief summer; of isolated Finland and its courageous capital, Helsinky; and the storied walls and battlements of Sweden's our ent Visby and Kalmat.

True, the Iron Curtain had already closest off one shore of the Baltic; newspapers carried bearlines that showed hazards were not all pavigational. And we could learn of no other American cruising yacht that had ventured into the Gutf of Funkturd since the war.

Craise Regins at Oslo-

However, on the afternoon of July 12, 1949, the United States ensign flow jauntily from the sterns of two withts lying off the Rayal Norwegian Yacht Club, Oslo. On one mooring was our Carthbee, on another Argyll, owned by William F. Moore of Oyster Bay, New York, our cruising companion for the summer. Both were ocean racing yawls, fast, able and comfortable

That morning the yachts had gone overloand into the waters of Oslo Hurbor from the foredeak of the S. S. Mormaniery (page 615). Musts and rigging were in place the stains of shipping from New York removed.

We had chosen Uslo for the start of the cruise so that we could sail down its beautiful fjord and cross Sweden by the fourtus Gota Canal, I had given's wanted to see tutal Sweden from my own tleek and sail its lakes

in the mountains (map, page 508).

It had been ten years since Zili and I visited Oslo. Our last memory was of Sarl Johans Gide, the principal avenue, througed with spent crowds while strens howled the best practice blackout. Since then Norwegians have weathered war airl occupation. Let we found their lovely capital little changed. Shops were well stocked, restaurants roowded t

Every weekday evening steamers currying committees to their homes on Oslo Fined race teramatically for the harbor narrows tpage

625). We dropped our lines and followed the Care there are not about the and art the sky was cloudless, of the depublics blue found only in high latitudes. Oslo was red and white against a bacaground of pinecovered green signes.

Amout 15 calles below Oslo, where the fjord nurrows, we passed the small island of Kaholm. Sakliers inspected us from lookout towers. Hubben in the rocks were burkers

narrow eye elits barely visible.

Where Nazis Got a Surprise

These were the guns that upset the time whedele of the Nazi invasion of Norway. When the graiser Blucker came abeam, the fortress opened up. Surprised Nazi generals drowned in dress uniforms donned for the

grand entry into Norway's capital,

A few miles further we saw a rusting more ment to the Norwegian underground movement the German freighter Docon hing at a steep angle on the shore. While this troop transport lay at Oslo, the resistance hero, Max Manus, worked for three days under the dock among rats and fifth attaching homemade Empet mines to her halk

When she was well down the ford, the mines blew holes in her buttom, and her commander drove her on the rocks full speed-Flowever, all those in the afterpart of the ship, including many Nazi soldiers going home on

leave, were lest

Land night we sochored behind Hankay, a center of Norwegian yachting. The Crown Frager has a bouse perched on a hill over leaking the barbor. He is an ardent racing SHIOT.

Beyond Hankey Atendly "Hank Island," as the termina our dy nestry "Island"—Oslo Fjord widehed loto a bage bay. Just after lunch, at 1:02 Saturday, July 16, I took bearings and found we had crossed a watery burder. and entered Sweden

For the night we stopped at the fishing village of Haysten-aund. As we sat in the k) it talking over our navigational problems

* Nos "Carity Crusses the West Indies." by Carleton Mitche , Narioval Genomina MacLine, January TRACE

I See in the National Groundfull Matazine. "Make the party of the control of th Aston and Alexanuer to, D. O. Same "Normer Crarks Her Mountain Shell?" Iv Sydney Clark, August, 1948, "White War in Norway?" by Thomas R. Hepry, November, 1945; "Surway, an Action Alic." 15 Withelm Morgettageme Match. 1984; and "Norway, A London Steen Reality," by Al red Penrar Henris, July, 1990.



Cranes Briste Like Oil Derricks above Göteborg, Sweden's Atlantic Garryay

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Sweden Grave the Sun-

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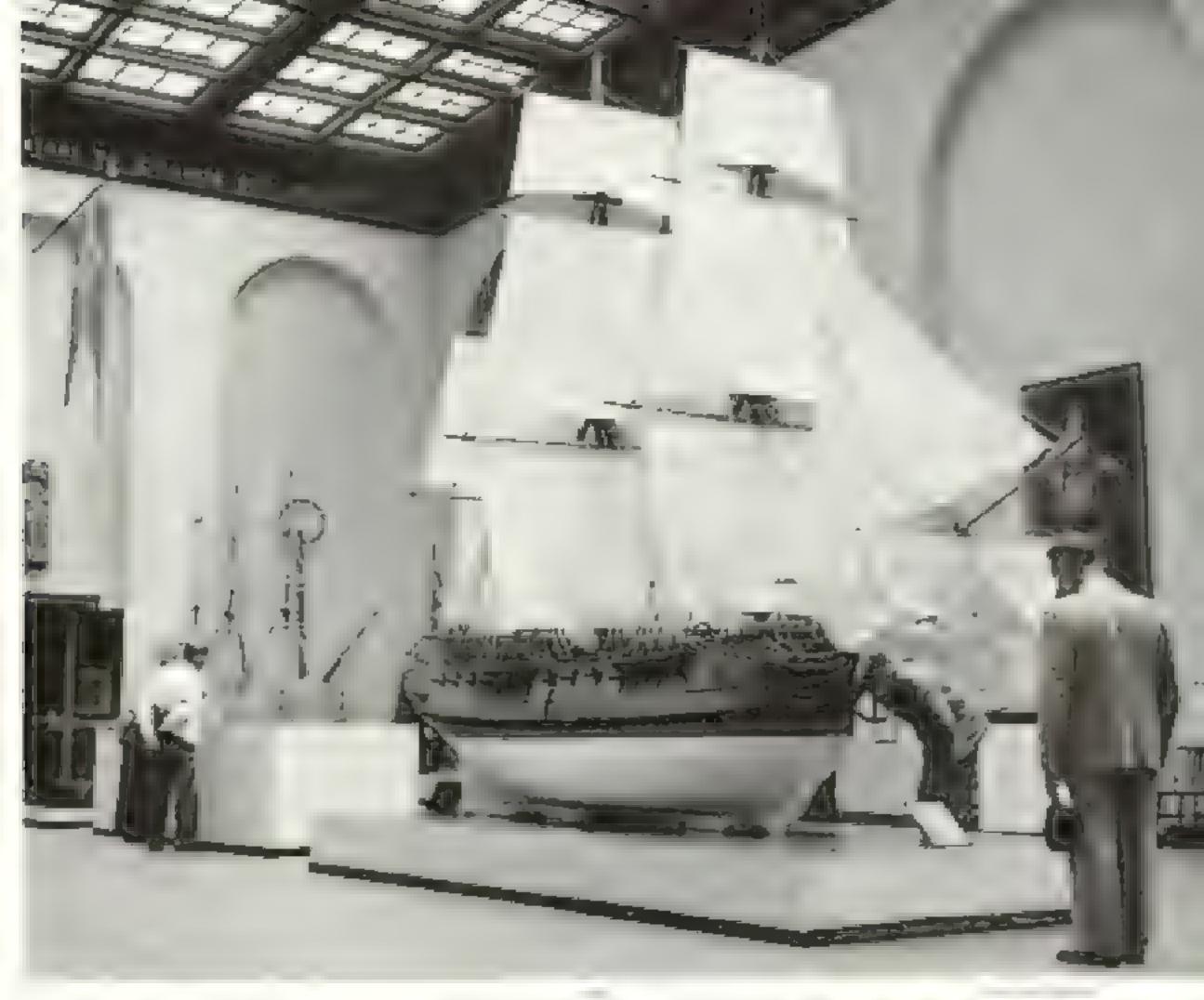
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Of the body on the house of the body of th

But the Viscos with a policy pursued. They controlled the northern seas. These seas, or many many phononics and consider the offer strongly.

As we taiwed on a for a Marsteine, we condited through a the Value and the content of the waters at the content of the content of the content they were as a content of the content of the



Suds Limp, a Wodel Ship Sands Becalmed on a Glassy Sea in Citch ag's Marine Museum

Will is by the American Period Inches American A

The solar by Stratifics bring's children also Astronomy Carl Taring and Astronomy Carl Taring an

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Gotthe J Sweden's Atami'e Ourlet

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The Iron Chrisin's Shadaw Falls Access the Haltis, Gateway to Northern Europe.

Out of Götebotg's criwites barbot we motored, bound up the Goth River, the first section of the count. This timule waterway, he was not a present the first of the first of the first of the first water and the first water of the first of the Baltic at Ore Sand, Swed sh commerce would be trapped.

Soon Cardibre and laged were motoring through a plack, countrysice. Fat cows greating on lush green fields looked up some at the trim vanis with flags waving gaily chagged past. The farmhouses with higher appeared on both banks. It tenio ladus of Wisconsin.

Still lendy, an imposing ruin shattered the

illusion. It was bobus Castle, a token of the cent mes when the Gott marked the frontier between Norway and Sweden (page 616).

former to the large constant of the state of

king of district North Control of the Action of the Control of the Action of the Actio

A state out to conquer the other k would not cut his lair until the a state of the state of the



Cardiber Anthors Oil Halvinki, Where the Americans Received a Rowing Welcome business assumed carried a new democratic of the home Carle was the Links

Probably was whitned capital to the contract south of the Armie Capite page 251. It show a position close to the 65th r. h. t. Laborator Laborator, and its neighbor, brings with the skyling's profession of the first Church, by state a being and an apartment on a

I - - - eded His thick and dowing locks be-

I at the servanger, crushing a Lieustance and anithm Norway. He married thyda, but they did not by mapply ever after. He married thy much several wives, rules for 40 cors, and founded a line of kings that lasted that centures.

Ghtu's Lucks, a Giant's Staircase

In the iftermoon we reached the foothills and out that has heart, we stored at a can's standard, a series of locks stepping up the billside. These water elevators by particular traditional in a harmosted waterfalls, which provide power for the hole southern Sweden.

this distribution of cannot is excited into three or the feet of experience for the can-guing

ships, from Gitchorg to I we Vanern; the second, a series of connecting a said the thatd, a thin waterway for I ! E was to the Batic. The trial I are were due by man. There are 64 locks at told.

By dask we had climbed the water a reason anchored in Lake Vapern. While the reason, Zib put the final touches on a smörgächerd she had spent the nitern an preparing.

She was worried whether her efferts with local defies would whi approved of Swedish friends in our crew. They did herring with d. hearing with some cream and this are rigg with ruleus; sardness, inchesses in shrimp to be eaten shells and all the salmon, smoked reindeer, smoked and all salmon, smoked reindeer, smoked and salmon, smoked and salmon, smoked reindeer, smoked and salmon, smoked and



Bruce lars to I vest the Author Pilots Considere Through Fooling's Pall & Wages to a second to the Second Second to the fooling of the Second Second

et skaligge og skriveligt i kar. Sprediget godstiller av i progest og kar og Sweligt Ligger i forskrive i lær

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By Bost Aerosa Sweden's Hear

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A Vacationing Swedish Family Saise Through Gota Canal on a Folkhout

Voltant temperate and provide the speciment of the second temperature and temperature a

study have the feet our passage. In the horse the terror of a body would saw ter form bla house and swing it ween lines of trees, and research thick would are not to the terror.

watch is no through. People rep from houses and waved. Very few American flags had over passed; there since World War II (pages 648, 619).

Fine cand crawling was moken by other parameters to the transfer to the transf

as one we attained our greens of the 225 and 1 love set level: I at a later require the creater into a spring, tamouts to esh it consists of and Lake Rown. To teach the sweeper bad to descend the 15 locks of Berg, the reservoir and notes of the 15 locks of Berg, the reservoir and notes of the 15 locks of Berg, the reservoir and notes of the constant of the constan

Our Tast Lick-Iral ic Abend!

From the highest 1-1 in d.op or almost vertical. has be ow we say the water and dwarfed sails. I wondered what would happen if a gate failed, letting the waters programs cown

On shore stood a propulpent to the colle-

Swedish - Idiers who had beloed halld the canal. But to me their memorial was the canal itself, still of service to Sweden

beyond, at Ment, we passed through the final took. Souldenly I realized that the water today to was from the Ballie. Another dream had come true.

but our proper introduction to the Baltic really came a few miles beyond. The canal had opened into the wooded bay of Slutsaken; in ture, this narrowed, and on a low point stack a gray stone tower.

Step Schneffer, a Swedish friend who was -. Ing beside me in the cockpit, told its story:

That is Stepchorg. In 1200 it must have booked just like that, but later a whole castle was built around the original tower. Kings lived there for centuries. Then after harf X died in 1600, it was eventually thandoned.

"When a new Royal Palace was constructed in Stuckholm, Stegeborg Castle was forn down, stone by same, and shipped to Stockholm But the work new bound the old tower too solul to break up. So the first part of Stegeborg Is also the last."

We sailed through the norrows, Argyll leading and anchored for the night at Arkostad. We were on the bultic skerries of Sweden.

Imagine thousands of islands of all shapes and sizes, scattered at catelon across spatkling blue water, with deep channels between and quaint hurbors betried each headland. Picture pare true, a count 2 store to the shape a party brown rocks, and white sails against a blue sky. Those are the ascerties, spread like publics on a feach along Sweden's shores and Finlands south coust.

We loafed through these islets with worm fair breezes, guided by perfect charts and a mofusion of navigational aids. A friend aptly described this saids give the skerries as "walking in the guiden."

Here we had no long passures or beavy seas, no wornes over savage squalls. This is to ocean cruising what roaming in a cuttage garden is to clumbing Mount Everest—a sailor's Garden of Eden

However, we wanted to have a look at the open Baltic, so we laid a course for Hävringe I thisbip and then the pennsula of Landsort

Russian Patrol Craft Close By

As we sailed along rolling shight y to a small beam sta, the Swedish radio added a disconcerting rote. A broadcast reported that, a few days before, Russian war-days were maneuvering between Oland and Landsort, almost where we were. It also relayed a warning by the

Finnsh Government to stay well clear of the Russian zone of Porkkala in the Galf of Finland. The small suring yachts, blundering inside the buoys, had recently disappeared.

As in the Behamas, so far to the south and west, there was virtually no compass variation. We were almost exactly on one of those isogonic lines where the needle of the compass points toward true math, or the North Pule.

However, we were not without some uncertainty, as the chart indicated aumerous circles of local ranguetic disturbance. One, not far from our path, showed a possible error of plus or minus 60 degrees, probably caused by an enormous deposit of iron ore.

Argylt and Curitibee parted company at Landsort. Bill Moore continued outside, whi e we continued outside walk in the garden and approached Spekholm by way of Lake Majaren

It was worth the delong.

Old Stockholm-"City within Bridges"

Our first impression of the Swedish capital was from the lake in front of Stockholm's Town Hall, called by some "the most brautiful building since the Renaissance." From our deck it was breath taking. The three golden growns of Sweden soar into the say above its soft red brick (page 651).

Stockholm is a city worthy of its Town Hith. Match is extremely madern anchitecturally yet there is an Ald Town, one of the most perfect examples of medieval Europe in existence (page 630). As the original Stockholm sprawls across an island, it is called the "City within the Behres." The old heart is surrounded by a new body

I have never met a returned traveler who did not like Stockholm. Its location as superh, eising above a pattern of spackling waterways. These, with parks and wide streets give it an air of spaciousness and broability.

Its people are courteous and hospitable. Theirs is a gracious civilization. Eating is a ritial. Tables grown with the assorted delication of the amorgazional the 'bread and batter table.' Nothing could be a greater understatement! (Page 609.)

When fresh-water crawfish krafter, come into season, the city—and all of Sweden, for that matter spes on a trawfish spree. Every restaurant blossoms with krafter tablecloths, lamps, and kindred decorations.

Stockholm is also a city of museums, castles, and churches. High above the city lies Skan-sed Park, white mouses of every period of

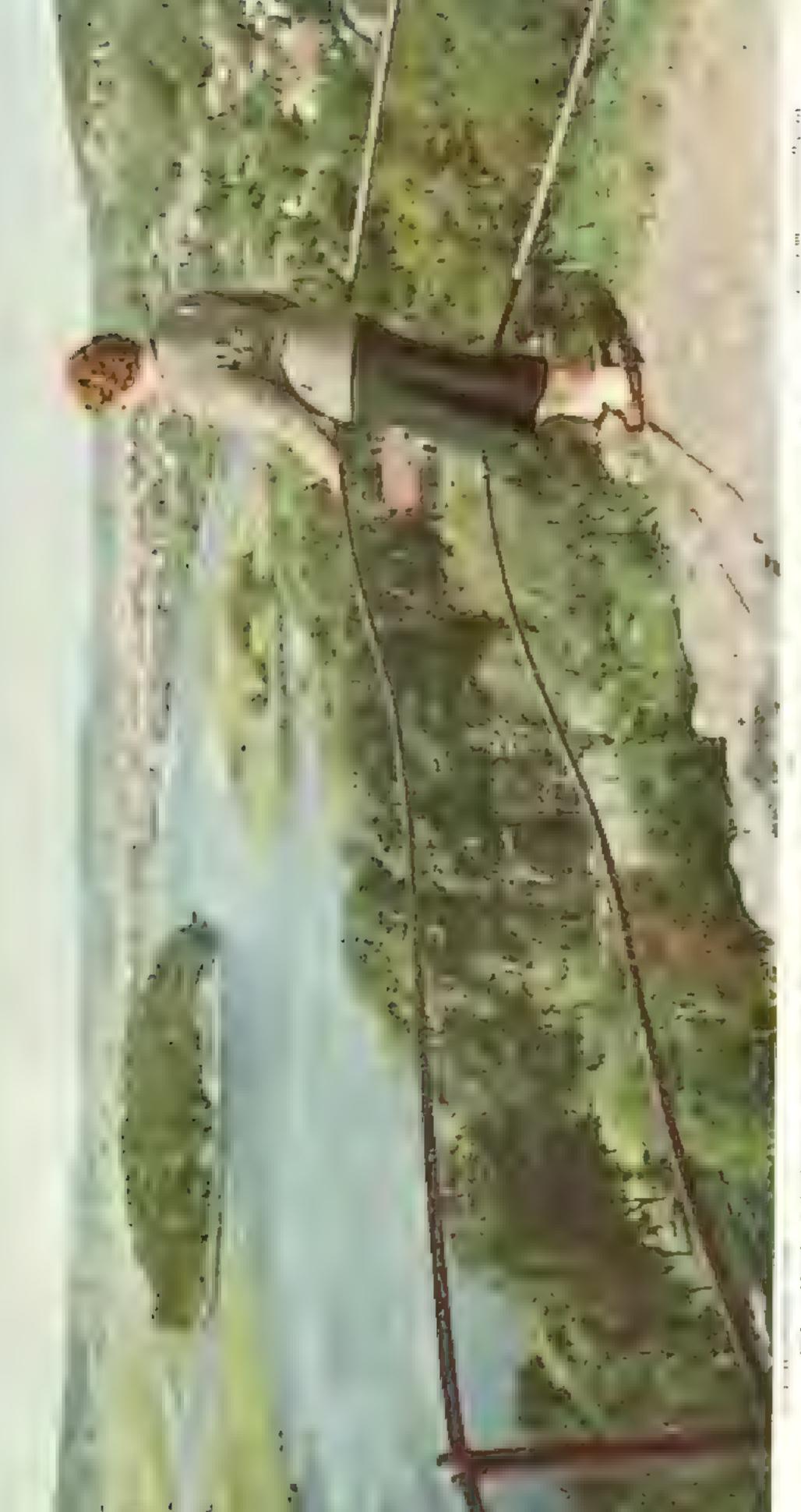
^{*} See * Grange City of the North, * by Salph A.



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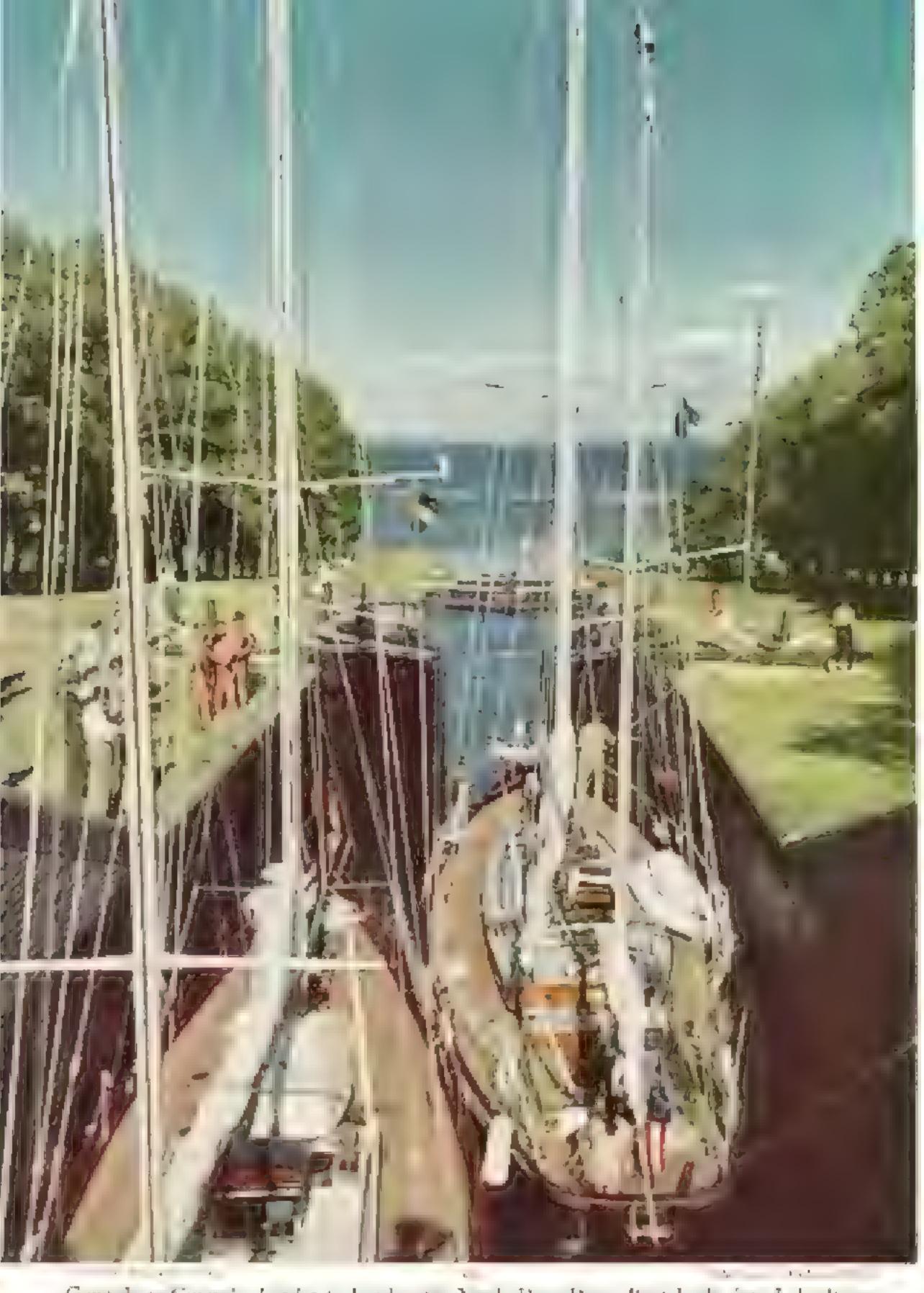


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Sugares and Beauty and am teaster.



Growth to Gunwale Lender to bender the Yamla Drop Divers Beng Locks from Lake Rosen.

Swedish history have been brought, rebuilt, near refurnished. Visitors literally walk back through the centuries.

Some churches an apture the past, ton, especially Riddarholm, the Westmiaster Abbey of Sweden. Here the kings and the great lie under banners and in magnificent troubs.

Untortunately, our luck with the weather can out on our arrival. The tuins came down in limitless quantities, so we moored Carabbre and moved to a hotel. A local paper curtomed a sports event in the stadion—gymnasis per-

forming in deep-sea diving suits'

Then came a change for the better. We the way from Osia we had had sunshine but little wad. Now our lack became even better; we still rejoyed the sun, and strong :. breezes as well. No somer had Cariba cleared the mooring basin than the overeast melted away; so we holsted working sails and fore through the passages at maximum specil.

Swedish people take advantage of Nature's blessing. Nowhere are there more little boots. As we came through the natrows at Sanchamn, we saw hundreds of boats lying in front of the Royal Swedish Salling Club. We lad narived for Sandhamn Regatta Week, one of the biggest vachting events of Europe. It was the one date that Bill Moore and I had planted our summer cruise around (page 632).

Thus began a memorable few days. Our welcome was swift and complete. We had hardly anchored before a representative of Commodure Jacob Wallenberg brought out an invitation to dinner. Each night there was another dinner, and formal dances it side the clubb uses or folk dances on the lawn.

Swedish Families Summer Affoat

To the Swedes any boat is a cruiser; whole families spend the warm mouths on craft the size of par smaller racing classes. Sallors pick a likely spot and tie up to store with a cooking fire on the rocks, eat picair style, and sleep in the cockpit under a canvas tent. At Sandhamn several bundred were doing just this and racing each day besides (pages 11.033, and 634)

To join in the racing, Bid chartered a sloop of the international 5-meter cass. Z.b and t took a sailor's hooley and crewed in races against boots from Sweden, Norway, Finland,

and Great Byrtus.

On the final day Caribber hoisted sail for the resort of baltsjohaden, another yachting center. From the walks around a large notel people watched our approach. It was a moment for stylish seamanship

A mooring off a large waterfront burding lay empty. I corefully planned my approach:

douse forestaysall and mizzen, a quick turn into the wind, then mainsail down, mooring picked up, bample! Except, when I spun the wheel, I happeard to take up. It was the laties' bathbonse, one of those hazards to mangation. Carabbee missed the mooring by a boat length

there began the finest sailing I have ever known. Both travel and Carities not under way with the first glow in the sky. It was came, Soon a breeze came in fresh and true from the southwest. We set every light sail that would draw. We hoomed through the skerries, smallght dancing on the water, the islands like green jowels in a silver setting

then one who leves the Tropies must concede there is nothing so fine as a spell of good weather in high latitudes. The air is saisp, and warm in the sun, cool in the shade By day the sky is deep blue, by night the stars are dazzling. Thus we sailed the skerries of Sweden and hinland.

Baltie Water Nearly Fresh; No Tides

The Baltic has a special charm. It is called a sea, but is more like a lake, as indeed it was during one geologic petiod. Connected with the Atlantic only by some a between Sweden and Desthack, yet had by the beavy rain and showfalls of the northern forests, the water is virtually fresh. There is almost to tidal rise and fall, so few strong currents.

During the summer the sea is usually placid, but winter gales make it one of the most cancerous bodies of water on the globe.

At Soderum Light we suddenly popped out of the skernes into the Aland Sea, a small segment of the Baltic. We set a compass course. The spinnaker pulled hand. The cost of Sweden negan to dun, that of Finlan I to rise.

it was a crossroads old in history. Here sailed the Goths, that restless and aggressive people who everran much of Europe and helped to destroy the Koman Empire. Here thussed the boots of the eastern Vikings. Here cruised the fleets of Peter the Great.

Rapidly we raised the shores of Algori Island. As we neared its principal port, Marienann, the spars of a square-rigged supposited above the trees. I should have been disappointed had it not been so, for this tiny and remote spot was the last home of the hir smang ships."

*See, in the Namesat Georges Was Lest of the Cape Horners May, 1868 When A Ship Survives (Aland Islands) 1945; "Claps Horn Gran-Ship Race." Jamesty, 1945; "On a finite man April 2006. The page 1951, all by Alan J. Viligia.



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Despute a series of wars of decision of the forms and a series of territory at distance repair of the Russian the Finns are one of the distance forward as a contribution of the product and move forward as a contribution of the product and move forward as

Skerries Like Spilled Pepper on Chart

The second control of way ledge of a second control of a second co

troduced gradually to scerry picture. We could have a battage of ideal sating conductors.

The water was smorth in the not hipelago, and both locats carrier every said that could be hung ir on the ringers. At the partow spot a small locy called in Swe lish from the shore, "Do your go with a motor?" Our tall masts were could ing treezes not apparent in one, and the bay could not understand our spaces.

Firmish skerries differ for in those of eastern Sweden; they are of reddish-brown cock, when show the by he and winter gales. Small ones how like whales suching on the surface. For se neatest the Gulf of Fushard are burren, but along the inner fairways most are heavily wouled.

We archored each night. One stop was at Kejsar Hampen, Tear Harton, a spang a recleaveen two is inde. It but been a fivorite of Alexander II, Tear of Russia and Grand Dake of Finland.

Once he isked in old woman named Sting of she had lish to set, she handed him the tope to her fish float where she appeal hade. The attendants were harifest: two weren't given lines to tend! But this Tear was atmost. The old lady became lumous as Keisar Sting, and the royal yacht bought fish from an one else

Hango, Western Outpust of Asia

At the southwestern tip of the Finneh mainland lies the port of Hango. It was held by the Russians during 19-40 and 19-41, following the first "Wilter War," when Finland defended herself with such surprising saccess Hango might be called the western cutpost of Asia; beyond it the hage mass of Russia stretches off to the Paritic

Buildings were painties and pocked by shrapped and builter. Reconstruction was going on. A new town built was rising on the hundations of the old, destroyed by right-

On the waterfront was were shown a monament to German schlicty who landed there in 1948 to help the binus drive Red troops from Helsinki. After the Russians got Hango in 1940, they removed the mona rest; when the limits returned in 1944, they restored it. But in the Moso a serve near of 1944, when lookkula was leased to Russia for 50 years, the monument was temoved again.

Heavy will be closes the Gulf of Finland 12 stemmers. Traine bound for Helsh ki formerly used the skerry that nels, kept clear by accordance. But the Russians closed these protected fairways so now steamers

must use the inferior piet and face, as of Hango during the winter

On the third afternoon beyond Hangó, a burnsh friend pil ned us to a k vely island where his family has a summer home. After we had safely mootes, Combber and Argyll, he introduced us to a Finnish bath,

Stones had been heated in a closed room at a water posted on to areate sterm. We lay on traised wooden benches. Within minutes perspirate a gashed from every pore. We slapped each other with birch boughs dipped in water and numeriarily laid on the stones.

Afterwards we lathered with suap, thep-swam,

I buring the winter kinns end up by rolling in snow or taking a plange through holeschipped in the see, but it was cold enough for the right then!

That main we are hape platters of krafter and sand the Swedish songs we had learned flut name of us could take forget being in the shad w of the krent'n plast six mass to the east lay the fatbidden sone of Perkkala 150 square miles in area and extending well offshore. No one knows what is happening inside

Skirting Finland Through a Fold in the from Cartean

Here, as cleenhare, the from Curtain is imperential. Finnish trains pass through with their shades tightly at sed, drawn by a Russian angine. Boats are not almost in go through the island passages. Frequently Funs loing near by hear sounds of blasting, indicating that the area has been braudy for it of

On the other side of the Gulf of Finland, little more than 20 miles away, the Estonian sland of Naissar has also been fortified. These Russian pans commune a 1 ships moving in or out of the Gu f of Finland. Peter the Great is supposed to have conceived this p an to "put a cork in the autile"

So when we left the next morning for the final run to Helsinki, we sailed through this fold in the Iran Curtain. We felt unfriendly tyes following our boats with binoculars and nather screens.

To prevent craft straying within the Pork-kala zone, the Firms unintain a wide senu-cacle of ficaling timess. When we picked up the first, we could make out details of the share beyond and see high towers. Simplianeously, we made out a vessel coming toward us. At test she was just a speck, but as we wanched through binoculars she grew rapidly. It was a moment of apprehension.

Caribbee happened to be in the lead. We

bolsted our American ensign. We could see no day on the stranger, has she was obviously

a moved patrol craft.

When gloom 200 yards away she made a sudden turn to parallel our course. At her stern snapped the blanch colors. They hooked very good to us

We alphed our easign and she deturned the saltre, her crew standing rigidly at attention

despite a beauty roll

If any Russians watched, we gave them a good show, for both yuckes were carrying bulloon Jals and mizzen staysails while the wind piped fresh tpage 6201. Our two-fact occur tace carried as well out into the Galf, within sight of Naissan. For a while, as the log put it, "and house a was in sight."

then the Helsmki Lightship appraised over the borizon. We had run the Soviet gratict. When we picked up a mooring of the yacht class we were six degrees from the Aratic Circle and less than 200 miles from

Leninerad,

Helsinki Recovering from War

We lay in the center of He sijki. From one decks we could see the parket place and the Government buildings and passing traffic.

(1 mges + 60), + 30).

Relsinki strack us as typical of the mation.* Many by black even the President's Mansion, lucked paint: this was not a sign of peglect out of nonor. Figure are paying off her dill's, reconstructing necessary buildings. Fresh 'make-up' can o me later. Some travclers find dra. Helsickly depressing. Theme it was just the opposite.

before. State shelves were bare and restantmpt fore limited. Now stores had a good stock and frod was plentiful. Possibly no other war-turn country in Europe has shown a more remarkable on overs, and without sub-

shadad natsi le aid.

rever! People in Norway and Sweden seemed genuinely pleased to see the American flag floating from the sterms of two yaclds. Clawds enthered whenever we docked. Passing books would wave and salute. But in Relative tality was boundless.

Finas Hope for Olympies in 1952

Finland is scheduled to be host to the Laympic Games at 1952. Freparations were going (deward for the reception of athletes and visitors. The studiom and betch under construct on symbolized to us finnish countries and determ and

Hore beine, in 1700, the Finns had prepared for the Olympics. Then the gameswere canceled because of the attack by Rusvia in November, 1934.

My only complaint about Finland stemmed from my usual difficulty with language. Here I had to struggle with not one tongue but two, as every sign, every map, every street more, appeared in both Finnish and Swedish. Even Helsmiti, Suemi, becomes Il Isingtons, binland, in the Swedish tongre. This is a heritage from the long Swedish rule and the hundreds of Swedish families who remain as part of the pation.

There was another miny spell while we were in Hel-inki. With the wind seemingly fixed in the southwest, an the mose" going back, we expected a hard thrush out of the Galf of Finland and down the Baltic. But the day before we left skies cleared and the wind shifter.

"A dry easterly!" exclaimed blunish friends "You have lack!" Fair whole from Sweden to Finkind, now the wind was to be 'en our tail 'honeward bound."

Markets of Porkkula le l'astern, again without incident, and we to kee off the lighthouses on the Firmish coast! Justini, Russarii, Uti-

Baltic Sailing-Woothes by Night, Shorts by Day

It was cold after the sun went rown. As we angled out into the Baltic, a short steep sea kept the decks wet. During the afternoon the wind had backed into the north, and it blew hard cuting the alart.

"If this is August, I wouldn't want to be here in Jamesty," said Waster, our protessonal seaman, as a polar wind knifed through

is as of woodly clothes.

Next morning the wind lightened. By 4 on the attention I was stripped down to shorts from Remounds and a Nassau strip but!

The fabled island of Gotland lay absorbed to had covered 270 miles in 35 boars, a masing said across open water, very satisfying after process by I been similars to keep us well clear of the Swiet-countriles. Estation and Latvian coasts.

Again we salked in the wake of ghosty

shins

Once these waters had been furrised by the keek of eastern Vikings, the Rus. These hardy Northman are not so well known as those who payaged the Atlantic shores, but

*See 'Helatoptors—A Contrast in Light and Shane," by Frank P S Classey National Obsager Machany, May 1907



The Shands Still in the Alands. Spanning Wheel and Ships' Bunks Are Home Fixtures seement of the street field in best of the first of the first seement of the second of er the set of the thirty of the tent of th To the transfer of the transfe

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Visby Still a Medica d City

As we wat slowly a ong the shore, the late at resort on graph Gatland's I me to I taotgat of clien sailers who had seen t the same way. Stone Age men riding rafts and he flowered log. A for the content fjords of the far north; merchants centrain. from trading voyages to every known part of Furope and the Middle East Then I or membered the ar unda that up wared off the Island one July day in 1361. King Val Jemar of Lienquark bander, crushed all registance, and ferred Busite from the town. It was the begraning of VI-ny's decline.

We found Visky a fascinating place them are ro jarring notes; ships and a her row buildings harmonize with the old Most

striking is the number of magnificent churches

in various states of preservation.

In the narrow streets we relived bygone days: mea-at-arms moving by torchlight, the town quiet behind its wall and meat, all upproaches closed caught the 'Lovers Gate' through which young couples were permitted

to stroll into the country,

Our next destination was the island of Cland, close to the mainland—not to be confused with the Finnish Aland Islands. We sit Gotland just as a fary sun disappeared below learned reloads. With the dark came a freshet wind, and sout the lights of the coast appeared. It was dawn when we dropped sails in Borgholm Harbor,

Above homed a castle, a huge and forblidding pile, one of the most impressive ruits in all northern Europe. Certainly its magmagent courtyard, large enough for a game of pulo, is on the grand scale and conveys a

sense of regal pagesoutry.

As f wandered atound, I was annoyed by names scrawled over every wall. Then I spotted a glass plate protecting a name stratched by a previous tourist: "Nils J——, Appn 16.00,"

Kalmar Controlled Sweden in Early Days.

The Baltic is ringed by fastles. But none seem as beautiful as Kolmus Nyckel, or Kalmar Key, a few miles beyond Borgbolm, across the strait. For centuries it was known as "The Lock and key of the Swedish Kingstom," He who held Kalmar controlled Swestlem."

dem (pulpe 640)

As we walked its correlors, I thought of the great drams it witnessed in 1397. Gifted Queen Margaret of Denmark brough. Norway, Denmark, and Sweden together in the Kalmar Union, a federation successful only during her lifetime. And I pictured mad King Erik XIV working as a corpenter on the intail paneling of a second floor poon while he awaited the reply of Queen Flizateth of England to his marriage proposal.

Bill Morre and I planned a course directly for the Danish Island of Burnholm. But our eye caught time dots of band on the way, a group called Chrostiansa. Two parallel islams formed a harbor. We decided to explain it.

A little past mistnight we picked up close ahead Christianse light. It was utterly dark. A Un set was running. To enter we had to stay exactly in the white sector of the light: I were were picks on both sides of the channel toutionsly we went ahead. A flashlight showed a stone breakwater close abeam,

We were not disappointed in Christianso. The barbor was not much wider than the

noats were long. Only 100 people live on the island. Theirs is a reged existence (p. 642).

Haring heavy numberly gales the seas surge through the harbor. Two years before, waves broke three feet deep name the quay. The whole village tended the fishing boats day and night,

Once strongly fortified, Christianse is administered by the Danish Navy, which tents 18th-century houses and barracks to fish an fare l'es. Nothing except a lighthouse has seen built here for 100 years (page 6-1).

Old fortifications bristle everywhere, rusted guns point to sea. Strangely, such islands with a military past are often the most peaceful and forgotten.

Borobolo-"Cock" in the Baltie

ilominated by 11 miles to the southwest. As we approached, we saw a reling countryside of green and brown fields broken by the red mois of twin towns, Sandy g and Alauge. As we rounded the northern point, the scene changed abruptly. The west shore rose steeply in wooded chiffs, surmounted by the Imposing rain of Hammershus fortress,

Flat farm hand, haystacks, and sleek cattle reminded us of Hadand. There were many windmills. Everything was neat and clean

(page 646).

Ronne, the principal town, seemed new Our taxi driver told us the grim reason. After the Nazi collapse the commander of the German occupation forces refused to surrender to any but British or American truops. The Russians wanted to take over, so mercilessly they bombed the town until the Nazi general capitalated. Immediately the Russians moved in. They remained until the spring of 1546, leaving reluctantly.*

Burnholm could be the "c wk" in the Baltic, just as Porckale is in the Gulf of Finland (page 625). I sattategic position is important.

Mines Still Lay in Wait for Unwary

Revord Bornh im we encountered another reminer of war. The official British Administry-U. S. Hydrographic Office paraitaring State outsided doleful comments: "Mariners are warned to keep a sharp lockout for writting mines... the temptation to car before must be resisted...

Although we felt wooden sadticats were safe, we stayed within buoyed swept channels, especially since a strainer had been last not long before taking a short cut,

Tra lebong on the Swedish mainland was a

*See "Bornholm - Denmark in a Natshell" by Musica Suther and, National Georgeowise Maca



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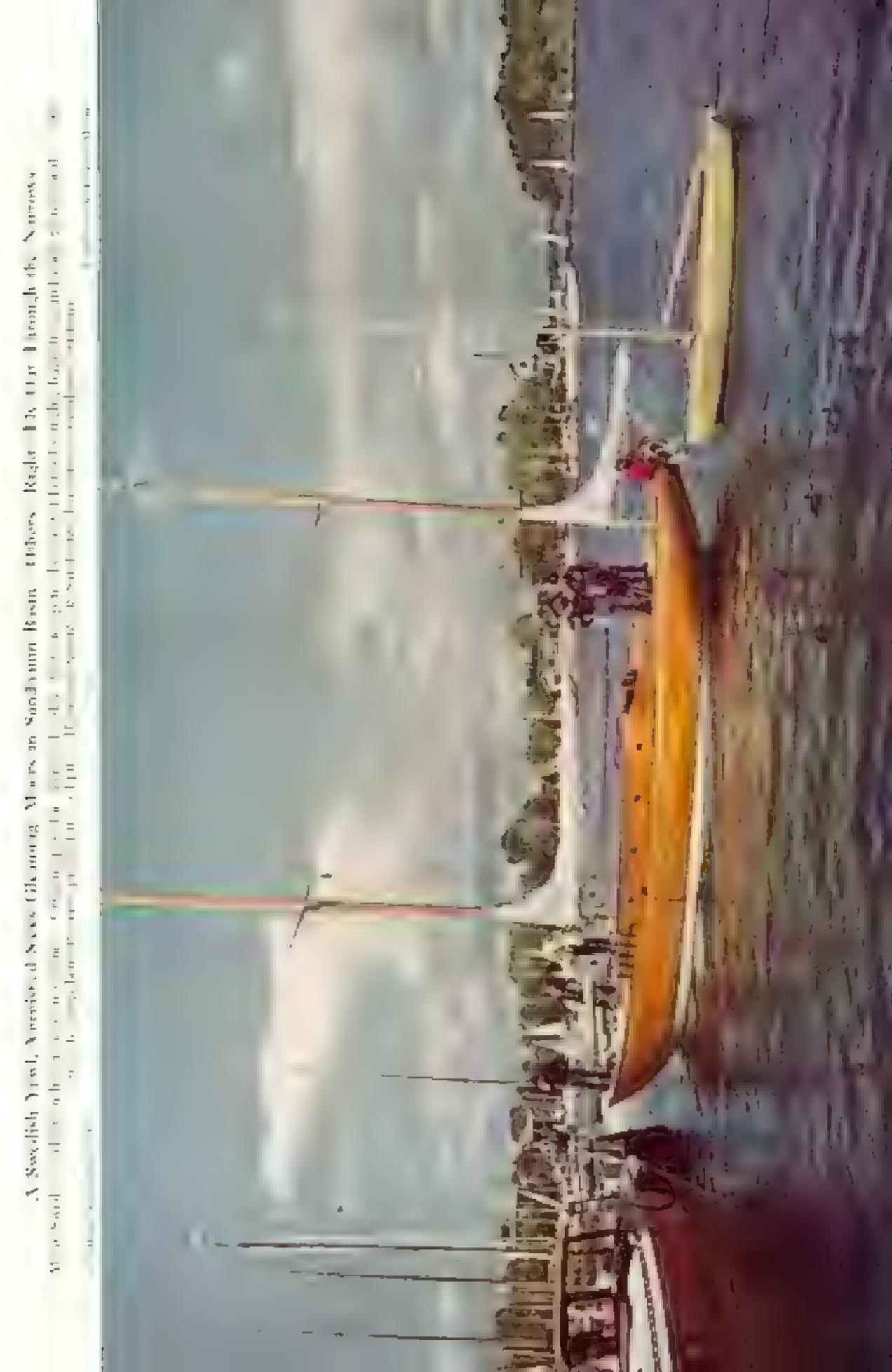
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Fine Stands Still in Vishy. Sweden's Maseum City Proceeds Its Fortune



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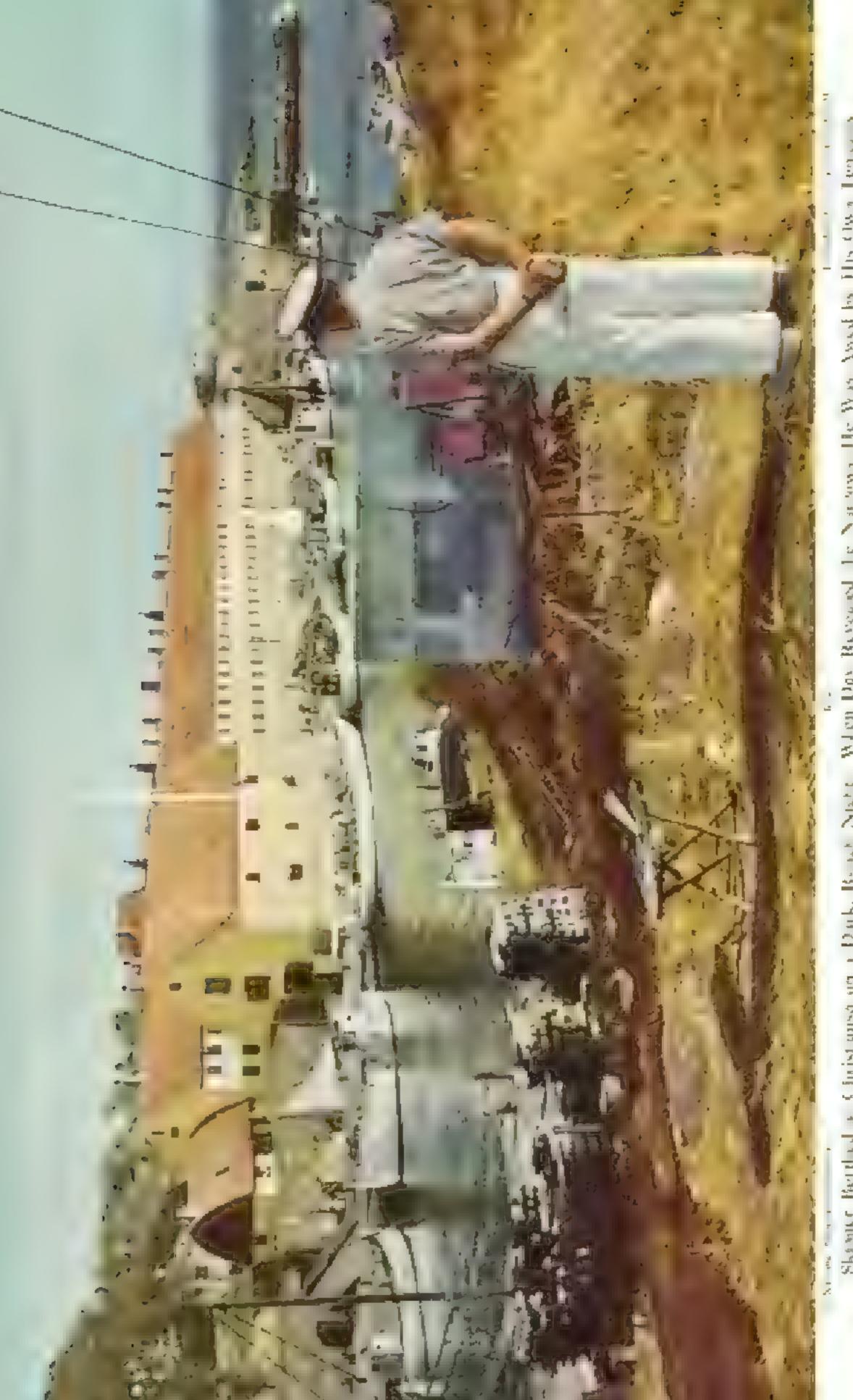




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dend city. Before the war it was an entry jost for Polish coal, a terminas for ferral or more ting to points on the south Baltic, The Russlans support such traffic. Co., l. chates stord gaunt and nesty along deserted quavs, ferry slips by emp.

American Bombers Flew in Baltic Door

During the war wast Berts of American , lanes reared over Toddelong on their way to German targets. By coming hi over the Baltic they avoided much German fire,

Bombers would go by for an bour," said a Swels. *One time the community of our antigiperate batteries here in I ra lebong talked by tadie to the communiter of the American squadron. 'You are over Swedish territory.' sain, the Swealsh officer. We know it," replied the American. I must fire," said the Swedy Our gans fired furiously, "You are shooting for law, garlined the American communities We know it," answerest the Swede,"

Before the war all shipping Louise in or out of the Baltic had to round Falsterbo peninsula, the so athwest lips of Sweden. Outlying shoals forced steamers close to the German-held

Hanish shore

To prevent bearg builled in the Baltic, the Swedes frantically out a canal through the peninsula. It is not imposing as catally go, merely a wide ditch a mile long, but during the wer it was of tre nemious importance.

fodgy large ships again round Falsterbu, but we chose the new canal. As Combbee and drepth passed through. I was struck with the parallel that forced the building of two Swedish waterways a century opart; the threat of Napoleon resulted in the Gota Canal spage nOx), that of Hitler in the balsterbu.

The browing the ragal we found make was innarrow waters. There are there exits from the Balta: to the Atlanta, two lying between the Danish islands, and the third, the Sound (Ore Simil), between the principal Danish idead and the pediends of Sweden. From Cepenhagen (Kolumbaya) the Swedish coast 15 alta niv viande.

Markers showed safe lanes to follow. For once burgs and not indicate hazards created. by Nature, but by man. The aviators of every felligerest nation used the Sound as a dump-

ing ground.

Again we sailed in the wake of hist my asthe towers, and buildings of Copenhagen lifted ahead (page 522), In these very waters securized one of the most dramatic in thirds. in the coreer of that great british invaliders, H raths Nelsans

A British fleet commanded by Admiral Mr. Hyde Parker descended upon Copenhagen in

18CF and demanded that the Danes rease convoying merchaat slajos, thus aid rig Napoleon. The Danes reliesed. Their deet, not fully in commission after the water, by un bo edwasher the protection of powerful forts, A I untal assemblappraires futile.

But Nelson was undarmed. He secured his semon's permission to approach the Danes from the rear with half the Bratch fleet. By night small beats sounded an unguarded clumped the Dames thought safe. When morning come, the British ships sailed in. Some ships go unded, but Nelson did not hesitate.

The Danés fought furiously. Admiral Parker, thinking the contest hypeless, signaled to withdraw. When Nelson was bid of the order, he raised a telescope to his blind as "I see no signal," he cried. "Continue tighting!" Most of the Danish ships were captured or sunk, domning Napoleon's Baltic 1 2 1 12

Copenhagon—a Danish Paris

 Copenhagen might be called a Paris of the seattern countries." Streets are wafe and shurled by trees. Life is leisurely, based on sulewalk outes and fine restaurants. Nowhere did we enjoy better found, yet, curiously, di Was the offly country where we were issued ration takets. Denote in was not short of food, but the Danes had voluntarily tightened their belts to export meat and dairy products to other nasi ms,

Everywhere in Copenhagen we saw the mark of one of her most energet a rulers, Kling Christion IV, that some gentleman who refounded Oslo. Although he died in 1645, much remains of his city; a Soock Exchange, many charches, barracks now used as apartments, and given a round tower designed for astronomical observaluate. Letter the Circul of Russia on a wager. drive a fearm of horses up its spiral stairway.

As we cleared the narrow passage from the sound, bound for Gitchorg, a huge fortiestowered over our lecks. It was Krop ong at Helsingur, better krown as "Hamler's Casta" From its walls we had previously linked across the two-mile gap to Sweden. Now we were starting up at its stern battlements, but not as woefully as earlier sail its when its guns forced them to stop and pay tole.

Shukespeare those an appropriate setting for his triggerly. The cashe still broods, a sombur mass full of threat.

*See in the NAMES GOURTER MALARE * * 900 Miles Thermak Eating e's Oldest Kalagdom " by Isobel 's vite Thulchison, hebruary, 1 eff; "On Lianish In West I — quist, January, 1940, "Royal . Hilastrand, February, 1981, to a second of Francis , p 31



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Here Come the Marines

By Ereperion Simple is

AT TUN TAVERN, Plandelphia, on November 10 1775, our id dizer Masine Corps was born. Sengoing solders, and to fight on land or water that's what the Continental Congress wanted. So recruiting oftens, bearing drums Salvation Army street style, "Iru omed up" the first of what are now America's fighting Marines.

That without little Tan Tavern band, with its flintlocks and fromy clothes, was expanded to about 485,000 men in World War II, and

uffered 83,000 casualties

In its colorful carrier of 275 years, our Marine Corps has shot its way ashore in some 250 pages and seen more add nooks and emparies of the world than any other Yankee fighting force.

In that time it has rinden everything from causels and shagay Mongolian popes to tobler mate, dog sieds, and submarines. For sheet addacity, teckless courage, and hair-breadth escapes, its exploits tead as might some imaginative Pintarch's Lieux of ad the sea rovers, burcaneers, and hand to-hand fight ers same (ac wild days of Genghis Khun,

Som after Communist North Koreans invaded across the 38th parallel, ground and air mots of the Fleet Marine Force, based at Camp Pendleton and El Tero, California, safel from San Diego to join Gen, Dangles MacArthur's forces. Without a few days after landing, the Lanthurnecks were in action against a numerically superior enemy.

Message Worth Framing

Jealous of its harr-earned "Bret to Cght" reputation, the Corps was reade and rarin' en when the word flished from Tokyo that Ma Atthor wanted all the Leathernecks that es all be sent him.

"Her, Mac, we're back!" sang out one Marine as the vanguard elements of the funed First Division hit the shore in Korea.

"Campliments of the Cirps!" So readlegends on the bombs loaded ander the wing-

of Marine ground support pl. pes.

The Marines are pretty proud that Mac-Arthur called for them in Korea—so proud, at fact, that this efficial document probably is due for framing and preservables. The Curps knows a listoric exhibit when it sees one, and will undoubtedly take good care of the MacArthur message

Loving a frolic as well as a fight, the singing, skylarking Marine encents himself to American hearts.

Proof of Marine popularity is the eager was

grandstand crowds whistle, clap, and shout "Herr come the Marines." when, on any Fourth of July or other parade day, the Leathernecks purch by.

In all their exciting annuls, from China to be Caribbeau, the Marines are to us what the Foreign Legion is to the French, or what the Grenadier Guards and the Gordon Bigh-

landers are to the British.

Patrictic Americans sense this, even in the crashing chorus and trlamplant words of the Manner' Name.

From the Malls of Montesuring
For the shorter of Trepo.
We light out to interfacional sea
In the arr, on land and sea
First to fight for sight and freedom
And to keep our honor clean
We are proof to clause the total of
Latted States Masue

All around the world on troop transports bound for advertures overseas, under tropic party to be a least to be a least to billets behind the fighting lines, the words of their same bave impired legions of Marines to a light resolve and renewed falth in their oath of localty to the flag.

"From the Hads of Montecoper to the shores of Tripoli" is not just a prette fine. Marines were with Gen. Winfield Scott on that almost increasible march to Mexico City in 1847, from which there was no turning back.

When Scott Irew his sword and threw away the scatibard. It was conquer or die. He pushed or with Marines and soldiers to the ramatic Battle of Churabasco; despite beroig Mexican defense, he scaled the walls of Chapalteper and took the National Palace—the Idails of Monteguma.

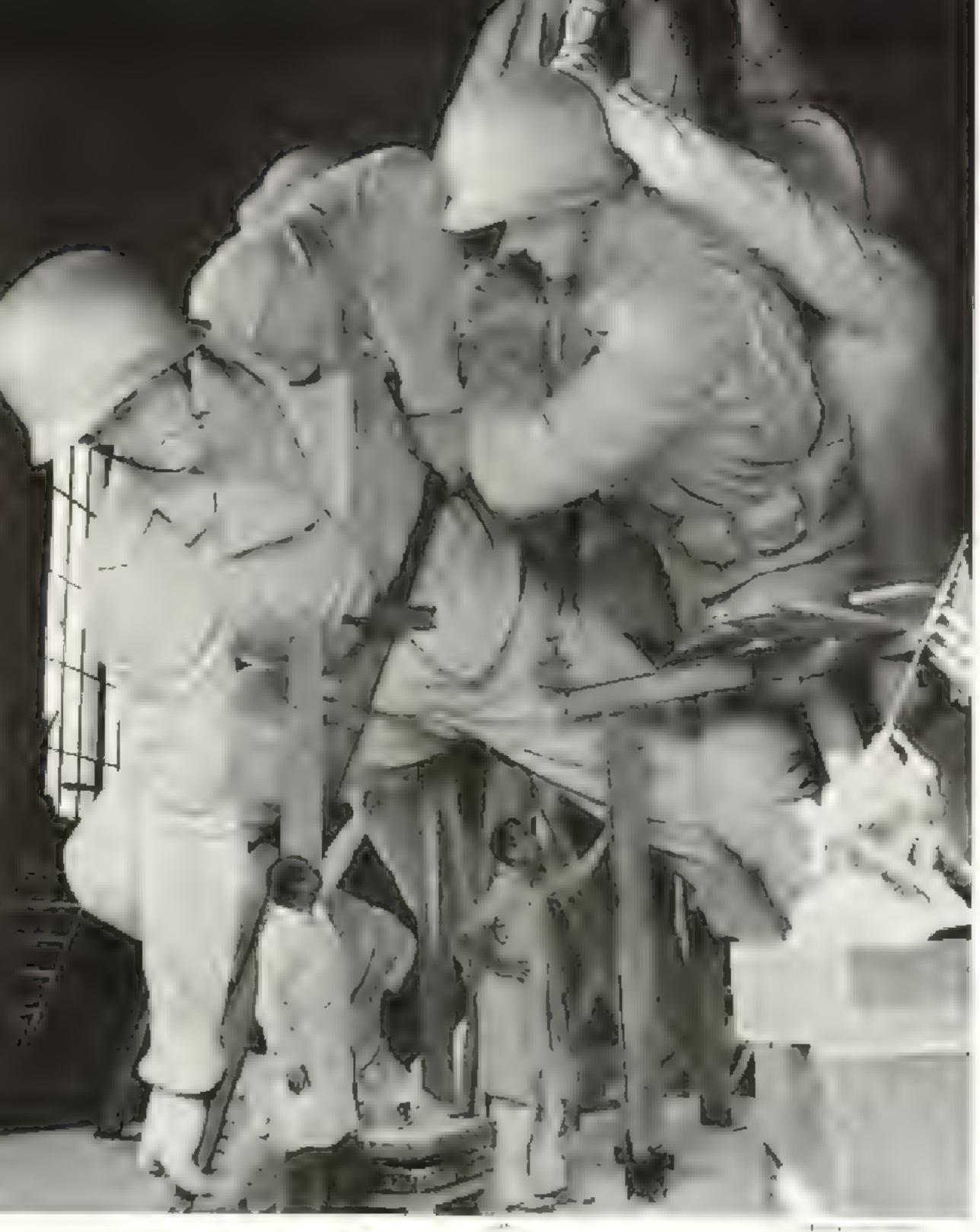
Bartary State pleates, on the north coast of Africa, used to alwass or merchantmen. After an amogant pushe out down the flag from over our out salate in 1801 and declared war on the United States, our Navy and Marines struck the Ishores of Tripoli

Here the Leathermecks, under Lt. Stephen Decatur, performed feats of during still fresh

'n wardt om yarns.

In one astomeding move, Marines man bed from Alexandra, Egypt, with a group of native troops and mercenaries across the Librar Desert, doing the shores of the Mediterraneum to artack and take the walled city of Derug jo Tripoli. Over it, for the first time in that part of the word, they raised the Stors and Stripes. This was in 1805.

V. Derma a friendly pasha gave Lt. Fresley Neville O Banach, USMC, a peculiar type of



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Seasoned in World War II's Jungle Buttles, William Head for a New Campage in Korea

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How Legthernecks Got Their Nickname

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Though Leatherneck is thus explained, no one see us to know the origin of another alakaname, "garene." Webster defines it as Arma sharg—Chf. plas Marno on the that a succeed "detogator by." Mort - the late, however, do not mind be recarded to the

Just prior to the restoral or the Source War, the Corps sumbered shout 7,000 of restoral 65 up to \$100 of restoral 55 up to \$100 of the \$1

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For law further says Marines shall work with the Army and Art Force to develop tack to be said equipment used by laminations that they shall provide detained to great to a line south revolution. It is not great to a line south revolution to the line in the line.

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Marine Riflemen Surprise the Defense with a Relicopter Landing

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mehind the scenes, he's busy with clock and dapage.

Marine officers officer serve as naval attaches, some nid the State Department on missions to such remote capitals as Addis-Ababa, or in trying to negotiate a peace between warring factions in turbulent lands

When in 1540 was with Mexico was maninent, and we believed that Great Britain and France covered California. President lames & 1.1 was a to solve out November of the Vision and court of Merit revenue out November who was out there on no explicing trip

Polk those Marine Lt Archibald II Gillespue as his agent. Gillespie made his way across Merco in degrase, talked to the commander of our Pacife squadron, Commodore Jaan D. Slost, then sailed to Monterey. There he gave Consul Florass D. Larkhi the White House message

But Etément was away, up tour the Gregorine. After a trek of 600 miles through savage Indian lands, Gillespie met op with him

It's history now that our western boundary was extended to the Pacific; and G l'espie, by courage and tenacity, played his part in gaining Ca iferna for Uncle Sam.

California and the Marines have always been good friends. When the Cyane sailed

to take San Diego, Lt. Stephen Clegg Roman its executive officer, went ashore on July 3 to 1840, with a Marine guard commanded be 1.t. William P. C. Marklon. It was this Marine officer, local historians say, who don't less raised the Stars and Stripes over that part of San Diego known as Old Town. It was the first time our flag flew berealouts.

Mad for served with distinction in the Cali-6 this compaign

Today, Marines and former members of the Corps are active in Nan Diego life. The dramatic cellut of the morning newspaper is a former Marine, So is the owner of the Lorgest sporting goods store, the window trimour at a big department store, the undersheriff of the county an assistant cushier at a large bank, and a former mover of Coronado

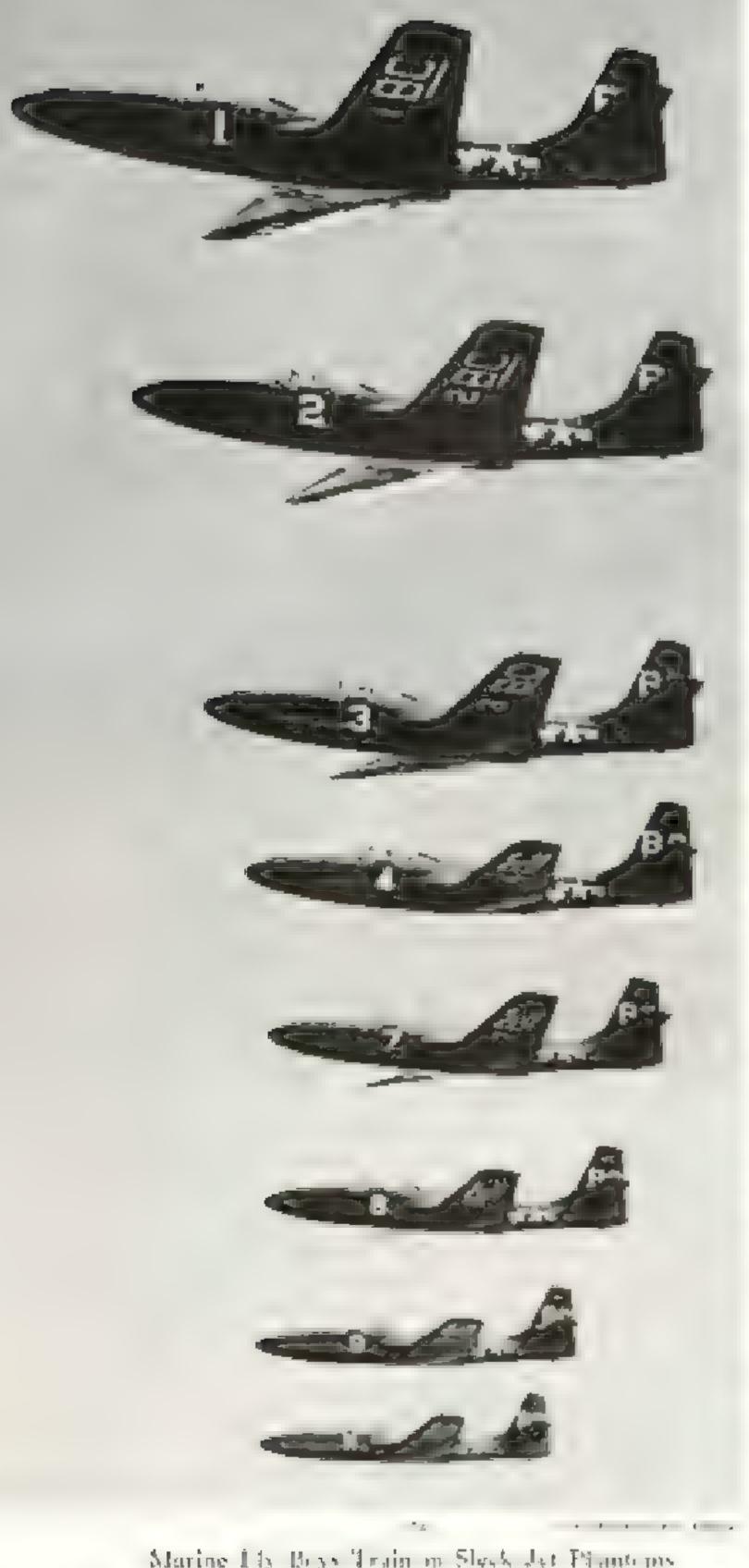
When they call San Diego a "Navy town," that, of course, takes in the Marines.

Hush-hush Training

Hu, h-bush training—in radar and espionage work goes on secretly behind burked wire at Camp Del Mar, in southern Cahfornia

There I visited Capt, kerneth J. Houghton, USMC, who a year ago took a group of men

* See "San Diego Casit Believe It 1 Lv Fiedorick Simpach, National Geographic Maragina, January 1441



Marine I ty Boys Train in Sleek Jet Plantoms

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Bonhowing Richard, Marines lest down the Bratish crew of the Scrapus and bourded that the result is to the latest of the second of the second

In the body to be the provision and a distinctive feature of Marine uniform—the crutiform braid knot on officers' caps. Tradition surfaces first sewed hits of line on the r beach reservoir that contades thing from the ring to could distinguish friend from for

Wars Fast, but Training Doesn't

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with new weapons and new factics. I know I've just flown to their principal bases—Quanth o in Virginia, Cheffy Point and Camp Leicune in North Carolina, Parris Island in South Carolina, and San Diego, Camps Lei Mar and Pendleton and Fl Toro, in southern California

I went a week with Max Gest, A. Hauston N . e, at that time commander of Parts I- a boot camp. He and his cracio s wife, fonde, known to the whole campi as "Miss Adda," are hearl-watming examples of that respect and affection which the best type of enlisted Marine feel for their · meers and families. I dee here with what regard and notective unders anding ofheers treat the r men.

Marine Corps history is full of beroic cases in which officers in their lives trying to suve their men.

Marines are made, not born. You see how the interiors

Pattis Island (pages 650, 651, 655, 670) and at the other boot camp in San Diego Irodationally, in peace-time of it wattame.

they're all hand-packed volunteers. In the standard ten weeks of touch, trying, back-breaking training they suffer, die, and are necessarited. Only the fit survive'

"Sure, we live shingle their heads close or a made's tail," said General Noble, "That's a mighty social leveler; that and the rough dangarees make our all look and feel alike Then you can't will a millionaire would be trom a Brooklyn paper-hanger a sur

And here the DI, or drill instructor, a limit to de the resonant which is the intermediate to the intermediate to the first hard path to provide a limit and the control perfection.

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"We are not it into

to it, over and over," said General Noble, all the acome to believe, themselves, that a Marine is the toughest, most fearless, and invincible fighting man on earth."

At the ritle range I watched recruits practice

Tent pull that trigger is receive in the year world to test of intempt goes tree in the terms' named to lat

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Nation of Theorems' Bloom Marines Stand at Parada base in Walant a Might Deck

Marines pray as well as fight. At hill loro, for example, they have in heir chancl a three-suied after—a side for Jews, one for Protestants, and one for Catholics. They're lineal, and tolerant always of the other fell was both. If a wounded buddy is dying, they bare their beads or kneel while a chaplain says a simple prayer. Or to New York, or New Otleans, they may all Bock to the big cathedril, say on Christmas Eve, to attend a pontitent solumn High Mass

Quantier Is a Tough School

Buzzing helicopters, like grant "stake doctor" insects, hover over the fields and forests of Quantico, 55 miles down the Poternae from Washington, D. C. This is the big Marine school, with especially tough, skull-busting advanced courses for trajors and colonels.

Think of the chargy saillouts used by early explorers berealunds, with maybe me small mustle-busing cannon good only for scaring ludians. Compare them with a modern Marine "Water Buildo," or scagoing tank, with machine gups and a supid-me orthood that smoots several rules (page 658)

We flew in one twin-totor "Sausage." From t we watched a sister belicapter from which dangled a cable with a big book on the free end of it. Howeving low over a field bowitzer, the capter picked up the cannon with that book, lifted it up into the sky, carried it a mile, and set it down ready for firing, ad in two

"We train gun crews to do that at maximum speed. That's so that any time, especially in a log or on a dark night," explained an afficer 'we could move guns quickly by air, drop them down belief energy lines or in some other unexpected place, and suddenly commence shouting."

This whole Potemac bank at Quantice fairly crawls with amphibian vehicles, engaged in oraclased training problems (page 652). We rode out into the river, with a squad of Marines in spotted cannoth ge saits, in an amtrack LVT (Landing Vehicle, Tracked).

Over a mar-by Water Ferifalo hovered a nelicopter. It lowered a harnesshke affair on a cable a al "rescued" a wounded man from the Baffalo (page 653).

This school, commanded by Maj. Gen Franklin A. Hart, emphasizes amphibitus wat. Besides classroom work with movies, maps. texthooks, and lectures, it sends students into the field and out on the river or up in the air, to work out problems using men, weapons, and vehicles.

Often one outht of officers and men will pretend to be the "enemy," who are trying to

seize, or trying to defend a beachinest. This carry is opposed, of course, by Marines, simulating another "army"

You by year the Quantico course ends with an Amphi drus Command Post Exercise, which in lades the theoretical landing of an enemy force of corps size at Onslow Beach. North Carolina. Then students from this school art as landing from communiters and staffs, and Marines from the Second Division, Camp Leieute, seek to "repel" the at mk. In this training, officers and men of the Navy and some of their ships and transports take port, some of their ships and transports take port, some of their ships and transports take port, some after their Marine amphiblious even ises are held with West Fount cadets and Annapolis midshipmen participating

Training in communescations is heavily stressed.

take this situation: a lanting party is shooting its way ashore, but strikes a fillhound for other enemy obstacle that's slowing it down. It wants gund're from the ships lying out at sea behind it, or it wants its Marine airdanes to come over our bomb those chemy positions, that are importing its advance.

How to get that word back to the ships or up to the places, most quickly, and tell them just where to drop their shells and bombs?

To perfect radio and other communications training. Marme airmen take duty with the ground troops: sometimes a Marine infantry or artillary tuison officer now side with the homber planes to spece up effective cooperation.

Finally advanced classes at Quantice to klastic theoretical problems involving new enemies new weapons, and new ways of fighting a war lasty apply these to this or that part of the world map. Who will artack us, where, and how? Where would we go to fight back? Students get free rein; many novel approaches and fresh ideas come to light

The Picet Marine Force

The term 'Flort Marine Force' is well understood in the Navy, but it's new in law, so Marine officers are good Congress used It in the 1947 as to Such a force, in brief, is a tolanced force of Marine land, air, and service elements integrated with our Atlantic or Pacific Florts. It is trained and equipped to seize or defend advanced naval losses, and to fight as for inland as the Novy wishes.

For yours, before Pearl Harbor, Marines tebearsed on just how to make such landings.

Early as 1921, in war plans for use in the bacific, Navy and Marine strategies began

* See "Landerg Cool for Intendon," by Marylle Bull Greenwar, Note van Greenwarer Manager July 1944



The "the Ma" Gives His Upinian of Marine Performance is "Operation Performance

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Ledy Leatherneeks Return to Duriv: Their Motto: "Free a Man to Fight"

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There's even one (untot firmed) story that while hunting wild greec atound the Take marshes Lt. Gen. James T. ("Nuts") Morre (retired) run out of shells. With traditional Marine ingenity and quick thinking, he flew low over the swamps in his open plane; this stored up the greec. Then he flew lock, ander them, reached up and grabbed a fat gander by the feet!

When I asked Ceneral Jerome if I might quite him on this story, he said, "Well, strange things can happen when Marines get

ashore in Chira!"

But never round China. Look at Camp Joseph H. Paulleton, that 120 000-acre base at historic Santa Margareta Ranch, on the cass of southern California. It's headquarters for the Liest Marine Division

In peacetime it leases some of the land 5.027 acres this year, for rentals tetaling \$244.502. Termits grow grain, peppers, tomatoes, and vast fields of daming red poinsettlas. On its hills it cons some 27,000 sheep.

ponts, horses, and raude

Pendleton is a self-contained municipal unit with movies, player times, stores, chapels, aundries, clubs, libraries—every facility a city of 25 000 needs—besides myriad barracks finces, machine ships, and acres of canvas-

covered weapons

Colossal field maneuvers, with Indicovers and tables in motion, plow territying sours over its grassy and brush-grown hills, heavy cannon fire echoes like thunder from distant mountains. And, every now and then, the whole division takes to places, ships, and ampliform trult and roars near to San Nicolas or San Cemente Island, off the California coast, for that every-time amphibious training which keeps Marines on their toes.

Ranelm Now a General Headquarters

One night I sat with the commanding general, Maj. Gen. Graves B. Erskine (recently sent to the Far East), and his talented wife, in their historic ranch house headquarters. This Spanish rancho—now a Marme ramp was once owned by Andrés 14-5 and his brother Pho Pico, last Mexican Governor of California. Their var neros and others, atmed with banes, fought the American soldiers and Marines under Gen, Stephen W. Kearny at San Pasquad in our year with Mickips.

Eve been in many a Marine headquarters, from Haitl to the Philippenes but I never saw

n setup like Camp Penaleton,

An enthusiastic pathralist and hugger (fercal I relate had built fish pends, cover for call, and "grazlers" where birds can drink water and hide safely from such predators to sent me on a hone-breaking, above-theclouds mountain title with his aide. I.t. William F. Doelder, who carried a curbone m case deet tried to kink us, cryotes tried to them off our titles, or bobouts should jump it to the jeep.

Wild animal signs and tracks were everywhere Once we saw crows and coyutes decouring a sheep. Doelder is a born Niment So is the General. Why ask, then, why

Duchler was the General's able?

Reserves, Too, Are Trained and Ready

Maj. Gen. M. H. Silverthorn, former director of the Marine Corps Reserve (he became Assistant Communicant of the Corps last July), told me how ready to fight als men are too. In 1950 the Reserve hour had the greatest train-

ing program in its postwar history.

Until interrupted by the Karean War, a high light of this 1950 program was the until. Last year transport squadrons of the reg for Marine air arm lifted more than 8,000 ground reservints to and from training locations without a single accident. That operation was expanded to transport about 12,000 by acr.

When World War II broke, there ceased to be any difference between reservists and regulars. Both fought heroically. By V-J Day, reserves made up more than 40 percent of all Leathernecks in action, including more than 18 000 women reserves.

before Kores, 125 separately administered builts of the Organized Reserve were in a regain 149 class of the United States and Hawaii. Of these, 100 units made up the ground component, marked by more than 33 000 officers and name. They trained at least one night a week and two weeks each summer. About 32 more such truits were to be set up this year.

Foday, all the Organized Reserve battalions

are on active duty.

Our Marine Air Reserve new consists of 30 fighter and 11 pround-coptrol intercept squadring based at 25 month air stations throughout the country. I lately watched a squadron of Corsairs training at Anacostia Naval Air Station, in the District of Columbia. These fly boys civilians, use their vacations to practice with their planes.

"Our yearly training is held at nine regular Missine buses on both courts," said General Silverthorn, "All these men are ready to

fight at the drop of the hat."

In the late war some 18,000 women joined the Marines, mostly as clerks. Alony worked as weather observers, control tower operaturs, parachase suggers, Link trainer instructors,



Marines Cover a Kneer Read with Bazanka and Machine Gun

These last letters to the control of the month of transport to present a target. Or man slips to the control of the control of

and make aperators. Some served as cooks and mechanics, literally, these latter worked from "so in to note." None fught

Tireless, canable, efficient, these women released enough men to form a whole new citision of fighting Marmes. Their motto

Free a man to tight" (page 667).

Director of Momen Marines is Coldent a etime A. Towle: she bolds digiteds on the University of Caldornia, where she was formerly assistant dean of women. If he her subordingte on acrs, she is a regular Marine, enjoying all the privilence, allewances, peasions, e.c., that made officers caps.

But marriage is a problem," sold one. We can marry, sure: we can even carry a husband as a "dependent," if he can't support himself. But neither we of seers, nor the enlisted women may have chadren born while we're in service the only chaldren we're allowed to have, and bold car commissions, are children over the And you can't give birth to an 18 year old baby! she said taughingly

You think of Brady's famous Levil War pictures when you run through the Marine Corps' astounding Pacific war protographs, made by its own corp, at caneragen first the the Japs. It is a vertable pictorial history to

Dogs Used to Carry Messages

Digs achied anach to the pictimal history of P. in the control of the first detecting an entmy's presence, surved as 'ident' dogs with patrol and enthost units. German shepherds were used to carry message.

Drapping their annieras, Marine photog-15. We need to Uniform? by La Verne Bradks Name and Commander Managem, October, 1943

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The the National Legisland Alabarras Line b West Alles Tro," built esta today Learner 190; and "hour Long Jomes Up." by Frederick but

park, January, 1600



"H It Wasn't Ragged, It Wouldn't Be the Marine Curps!"

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cotal reel soft ever, and best to the verboard but while as of this was high list 35-mm, camera a fixed or one but held high above water, and his rifle in the other, it took Hatch 15 minutes to make the areast walk of his his

less bulks - upole and he color for behavior with the shoots of the beauty granting more partition of the fine of the water water and the emulsion and his change humed the cest of it to keep it cool for future use

Forward with the Fluire Throwers

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Navy Keeps Transports Ready

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Freezy Man knows His John

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in the first are gesting to sea, every rain man in the outlit knows just what his polish to a sand how to do it. I the planfor quark a farsh or the Marie cross congo too a see 15 to 2 and 1 to ship to 1 to 1 to 15 عوره المراكب الراك والمستراد عن التسليخ فيما الم If the Navy makes any change hone one replience and taking no rate of a con-Miring as kept informat

This all means that orders for embark .tion can be issued, and the face started on 15 way to the docks, even though the ships themselves may still be on range to that port or getting furled and processors

that's what in Marine Logan Britis Gen. Chitton B. Const. a see when it was the terms of the transfer of t

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We Took the Highroad in Afghanistan

BY JEAN AND I RANC SHOR

With Illustrations from Photographs by the Anthors

EMOTE Wakhan! Some 700 years new Yorks I nated Orient and Orcident. Great caravans of Marco Polo's time lacked their way across its transpy proks and crewses. Today, by passed by modern transport, it stands virtually "out of this world."

But should the Communist drive for world power pash south, Wakhan, a toid strip of no man's lated separating Russia from Pakistan, lies like a gigantic tank trap across the most direct route to the riches of the Indian

s Decontiment (map, page 676).

A year ago the ken struck us: why not explore the arcient highround on the routope of the world? We set our plans in motion, but met discouragement from all sides. It was barely possible that our proposed journey across problitted military zones of Turkey and tran might be arranged, we were told, but Wakhan was strictly taloxo.

A number of scientists and explorers in recent years had requested permission to traverse the Wakhan corridor, I it the Alghanistan Government had refused everyone. Even if permission were granted, the trip would be too unigerous, we were told. The tribesmen of the Pamirs were force and inhospitable.

We decided to go ahead with our plans myway. We were well received to Ankara and Tehran and coosed Turkey and Imn

without clausualty.

Then we went on to the capital of Afghan-Istan, Kabul, an up-to-date, progressive rate with a population of about 250 000 (page 675).* Here we expected our romantic journey to come to an abrupt end. We were advised to present our request to the direct raf the press. His Excellency Syed Kasim Khan Rishtya (page 701).

"What sugazines do you wille for?" Rishtya asked. When I mentioned that Jean and I had recently done an article for the National Geographic Massazine, Rishtya

smiled broadly,

"I am a reader of Tire Grockarine," be said, "and so is His Majesty the King. You combin't have a netter recommendation."

Indeed, we couldn't Two days litter Rish-

1ya summoned 45

"His Majesty," he said, "has ordered an exception in your case. You will be the first foreigners in more than 100 years to make the full journey. The Minister of War wall

furnish a military escurt, and I will send a journalist from my office as an interpreter."

We later discovered that one man had precaded us in the Wakhan traverse. If W. Tilman, English mountain climber, in 1947 tried to cross the northeast tip, but the Kirghia arrested him and took him down the corridor to Falsabad. Heirg noder arrest, he had little freedom of observation. We were the first Westerners since the time of Maxer limit to explice fully the entite length of the corridor.

A Visit with the Kind

We tried he express our gratitude, but Rishtva waved our thanks aside. "His Majesty will also receive you for an interview of ais palace at Paghantu. There you may photograph him and bis son, Prince Madie Shah."

Mr. Richtya drove us to the palace, where we had a friendly that with His Mujesty Mohammed Zahir Shah. The King is well above medium height, slamb r and handsome, with a lean face and plenting eyes (pages 674, 682). He pointed to the current copy of the Natural Geographic Marayles on his desk and stid, in periest breach, "I look forward to its arrival every month. I know of his better way to learn about the other peoples of the world."

The next two days were a which of hetminute preparations. Finally we struck our in a rented station wagon for Fazzaback, repital of Barkakhsham, with Chulam Flazzat hashan, the young journalist from Rishtya's

office (page table

1

After a two-day trip over poor roads, we seached Faizahad, where we met the governor of Badakhanan, Mchammed Sawar Khan. He exploited we should have no difficulty traversing the Washian because the grows would not come for another month. He said be would provide us with a ling horses and pack uniously, as well as matery escort.

It all seemed too good to be tree—and, as a tarmed out, i west time. But that night we went to bed in high sparits, believing for the first time that we were going to surger i where so many had failed.

We spent the following two days preparing

* See in the National Geometric Manager, * Buck to Afghantstan ** October, 19th, and "Afghanstan Makes Haste Slovels," Leven ber, 1953, buth to May and Own a Wahang



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The first morni. K. I is a recollish the rental of the horses what we have the contract of the previous day was 15.0 min. I have the Sill. I told him of Walil and the Covernment would prove have the contract of the was most confirmed to the last the contractor, for him what is was then 1,000 algebrais. Obviously we a still part short on a 12- to 15-day journey. I also algebrais a cay

As we writed for free to be the self with a little mendion.

In the translation of the first than 1 000. We was the sold to the relation of three ragged tent-age girls with matter has some set of the first tent.

We found two fam as of about 15 people

living in a tiny smoke-filled but, with no furniture. An ancient iron kettle steamer, and have in the center of the floor. We have a fire in the center of the floor with some for an approximation. They paped them incompared the formal paper of the fire paper of the kettle of a finite that the same incompared them income that the same income is a fire that the same income is a fire but the formal of the same income in the fire paper.

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Ultimately fresh horses were produced, and we started out for lishkastion. The trail winds along a pleasant value at an altitude of about 1 feet, with larger mount are come 1 feet in either side. Non non- our provide ample in the 1 few regetable or closes wheat hades in few regetable.

Zarkhan, where we stopped for lunch to have a large with a real selection. No salt is found in the area, and inaccessibility and poverty bave use surged imports: so

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The Ox is Twink Through he Chape For Below Tailing Yaks and Herses Standale I

yamls from Lere," he whispered. "We are afraid the Russlans might cross the rater at night and cutury you."

The Russians didn't "catrip" us, but the bedbogs did. They ignored our DDT pewder

and swarmed in by the thousand

The pext day we landled at Urgand, a little village at about 9 000 feet altitude. Finding a beavy crop of wheat that high apartment us. This grain takes only 40 days from planting to harvest. It produces a beavy yield, and is apparently quite impervious to cold. We brought samples of the seed back to Washington where the Department of Agriculture is experimentate to determine whether It can be grown here (page 687).

The Blessing of the Prophet

By mon the next day we reached Khandut, the administrative head, natters of the Wakhan district. There we niet the judge of the Wakhan, a 70-year-old gentleman with a magnificent white beard

He greeted as warmly. The Norm, he explained, usped at Moslems to travel widely, he know more of the other peoples of the early, and ours was thus a mission which undenbredly had the blessing of the I reposet

We reached Quar Langu, the Fort of the Oxus, at dusk (page 678). The gardson consisted of about 50 soldiers quartered near by, captained by an all of who wore a United States Army blouse and Aighan trousers tooked in Russ on hoots.

The garrison communder but distarbing news of an incident at the Alghan-Chanese border. The Alghan Kirchiz, he reported had been fathting with tribes on the Chalese Turkistan side of the border during the past new days, and the border might be closed Koshan and Cadet Rashid made trutative suggestions about turning back, but we and a president would go as far as possible

In four days of travel from Zenak to Qula Burga we had climbed only about 500 feet, from 8 500 to 9,000, but after leaving the fort we turned sharp y upward. For hours we soiled up a rocky rliff, our herses packing their

way carefully along a norrow ledge

We rose pard all atternion, crossing one rulge of mountains and dropping slown core to the rocky fiver valley. As dask fell, Rashid account to look worked. There was no trail, only a broad valley full of great boulders, trisscrossed by foaming mountain streams. We pladded on for two hours after dark, our horses stambling and slipping on the stones. Rashid would not not nit be was lost. But he was, so we called a hait for the night.

that best als were with our bargage animals

and the soldlers, who had gene or shead of us, so we prepared to sleep in our chapous. Rashir, informed us that the country was full of walves, so we took turns standing goard

At 3 I awake, to find Rushid sound asleep and the horses storing restlessly. Jean awake and insisted on guarding for a couple of hours

too, so I dozed off.

Half an hour later I was awakened by a blinding flash and the howing of an animal chvitarsly seared to death. I can to Jean's side and found her holding our flash gua. A wolf had attempted to attack our horses, and Jean, having no more lethal weapon, had fored a flash in his three tion. It shd the trick.

One of our soldlers found us shortly after own. It's whole greated been worried because of the wolves. I smiled at Jean and explained that American girls were trained take care of themselves around wolves.

Private Bath in Public

An hour's ride brought us to Khurat, where we slept for a few hours. When we awoke the villagers in right as ten and sabless bread and Jean went off with the women of the

village for a bath in privacy,

"Privacy, indeed!" Jean said blot. The women brought her a pot of warm water, but the room uniortenately had no door. So off they went, looking into every had, until they found one that did have a dor. The girl-evicted a processing gentleman, brought in the water, and departed. Jean uncressed an started to bathe. A moment later, one of the older women returned, squarted on the fivor, and started at Jean. Before long, half the female population of the viding was watching

They insisted on helping Jean dress. They had never seen laced boots before and kept wrapping the laces around Jean's legs, Afghan fashlon. The zipper on her judget fearinated them, and they took turns apping it.

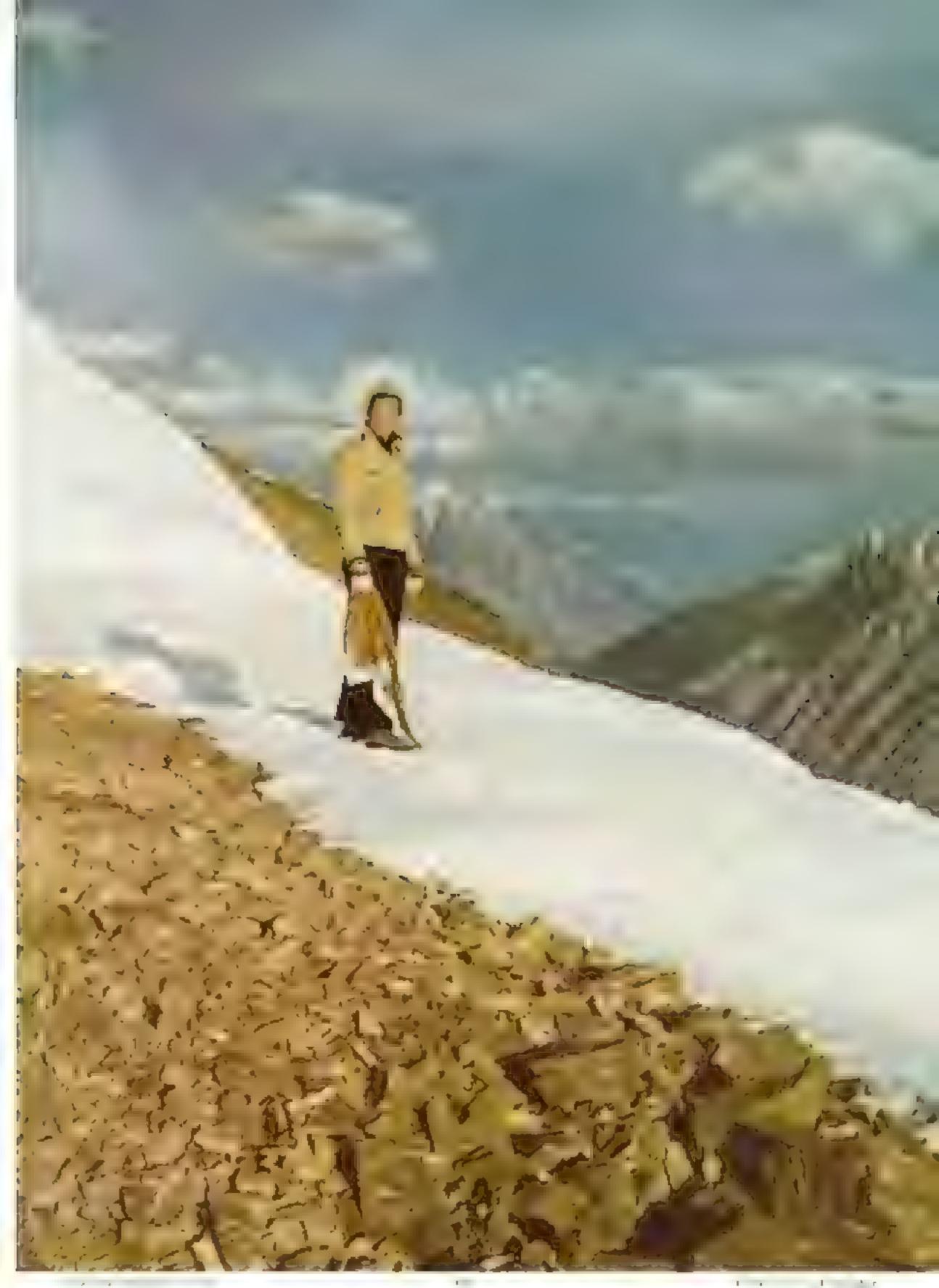
"My snap a clighted them, One asked for a piece of it, and I smiled a 'Yes.' She cut off a chunk, and so did all the others. I ended up snapless, even had to hottom a piece back to wash my dirty cluthes. I handy finished dressing and telumed to find Franc writing in our Ly that I d gone off to 'bathe in privacy'. Men!"

I asked Koshan to find out If we were the first Americans these people had seen

"They have pever even heard of America,"

be said. "They never see foreigners,"

We left the friendly village at asom and worked our way over rugged trails until dask ingeed mountains shaded the trail, those in lakistan towering over 20,000 feet. Here we



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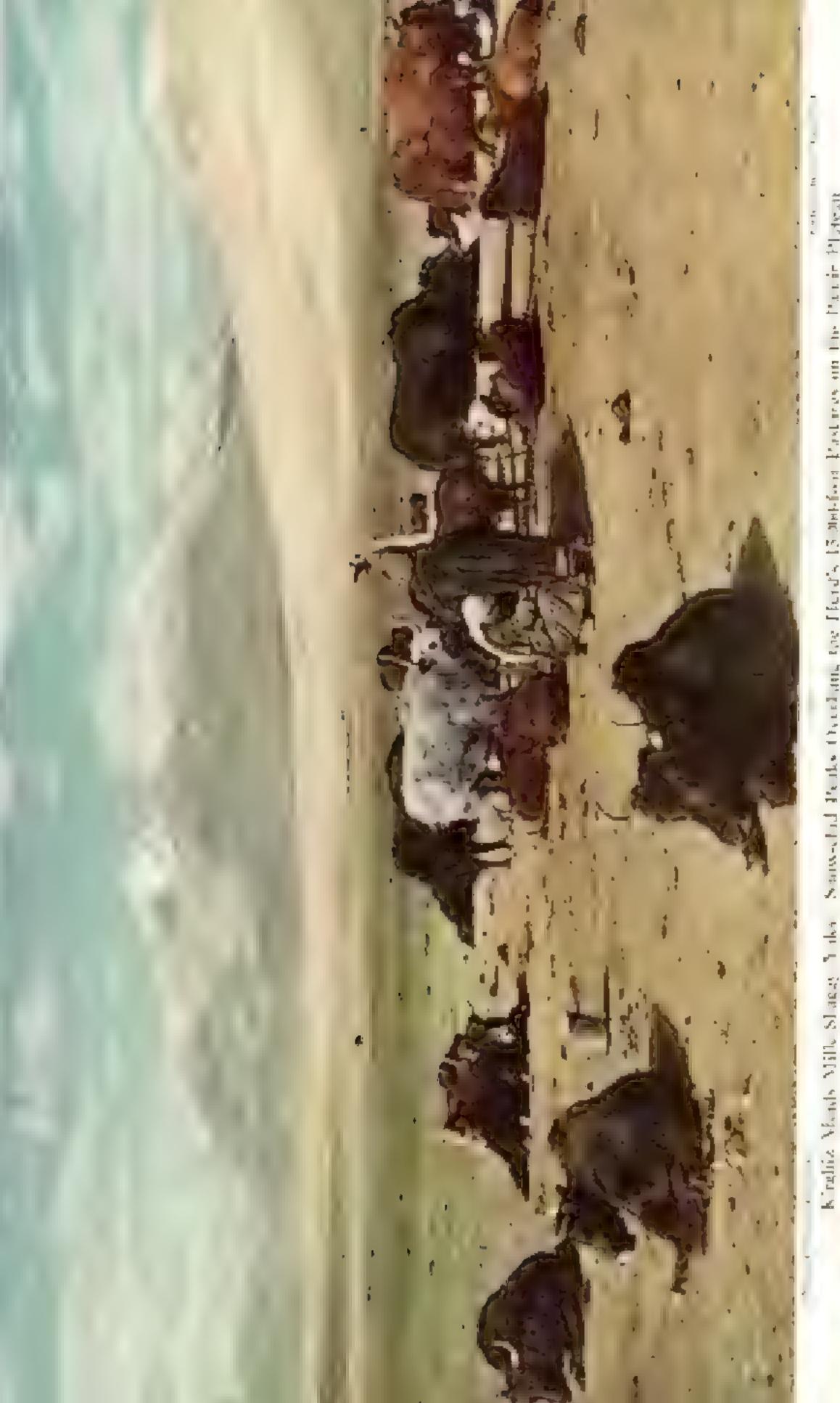




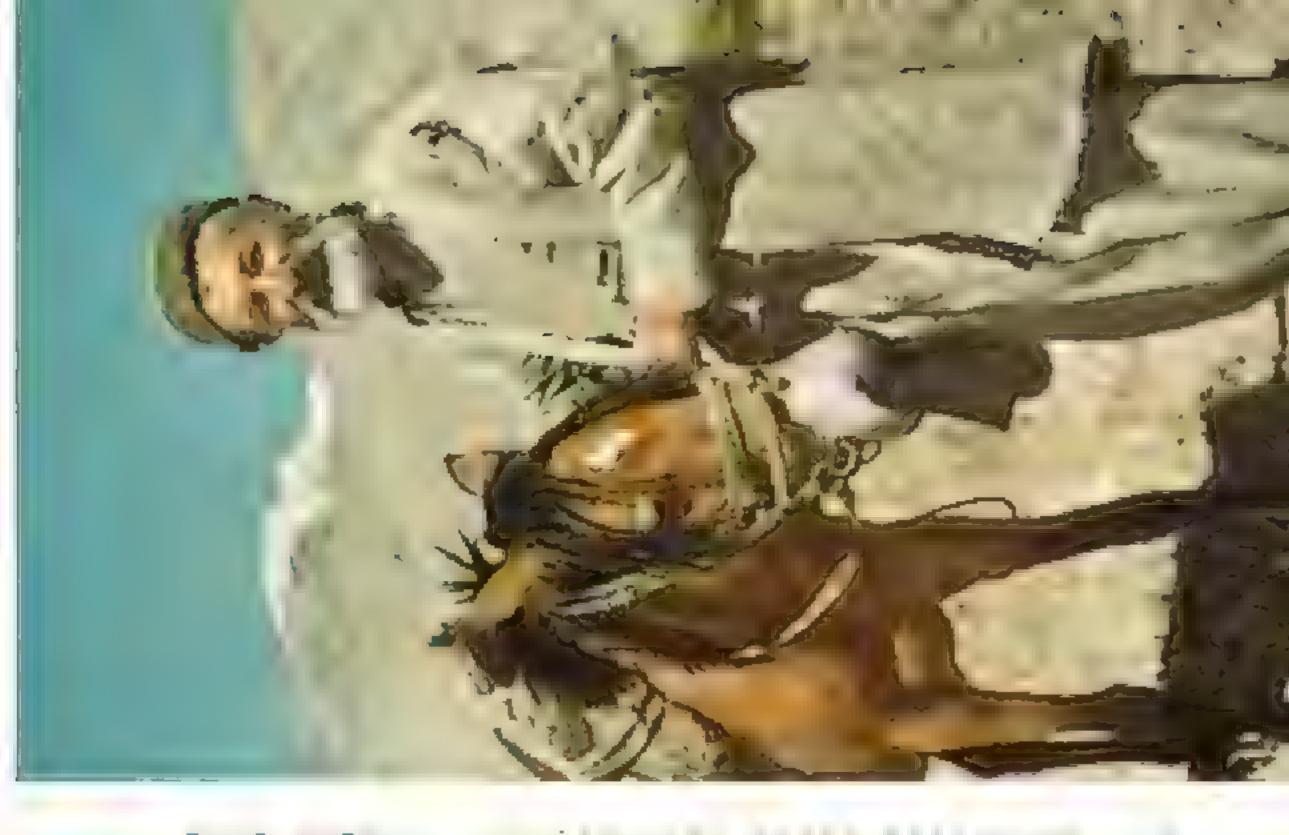
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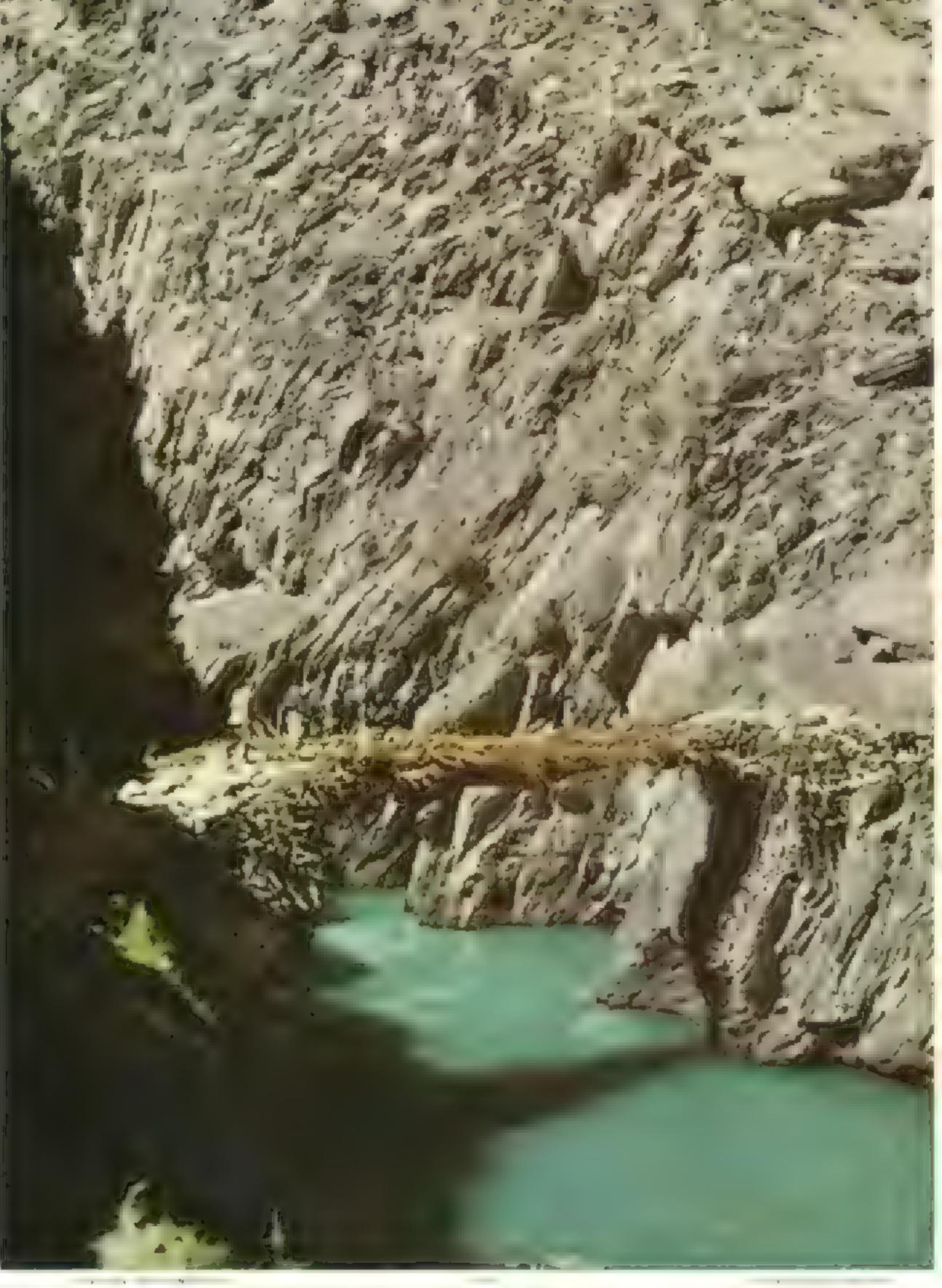
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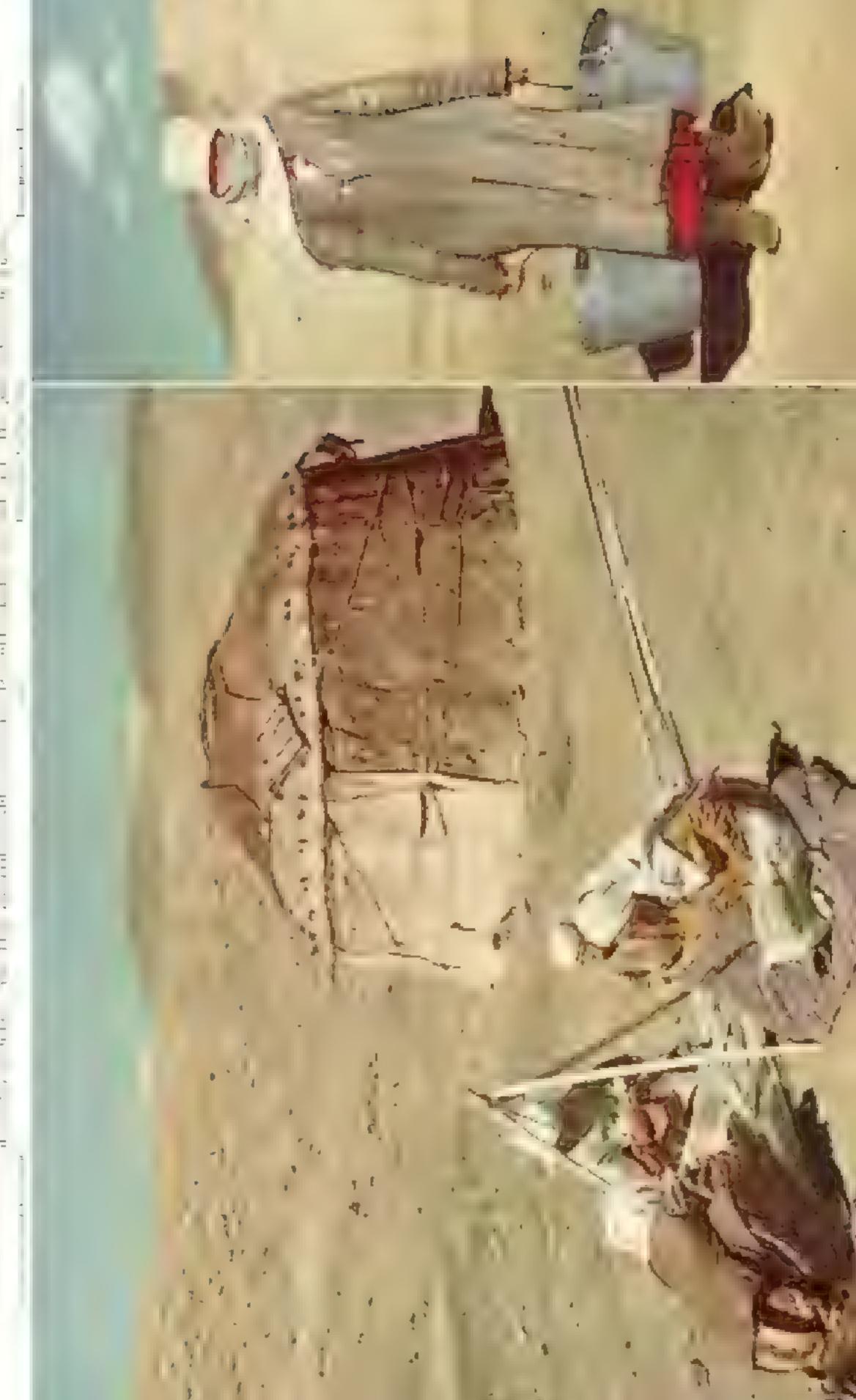
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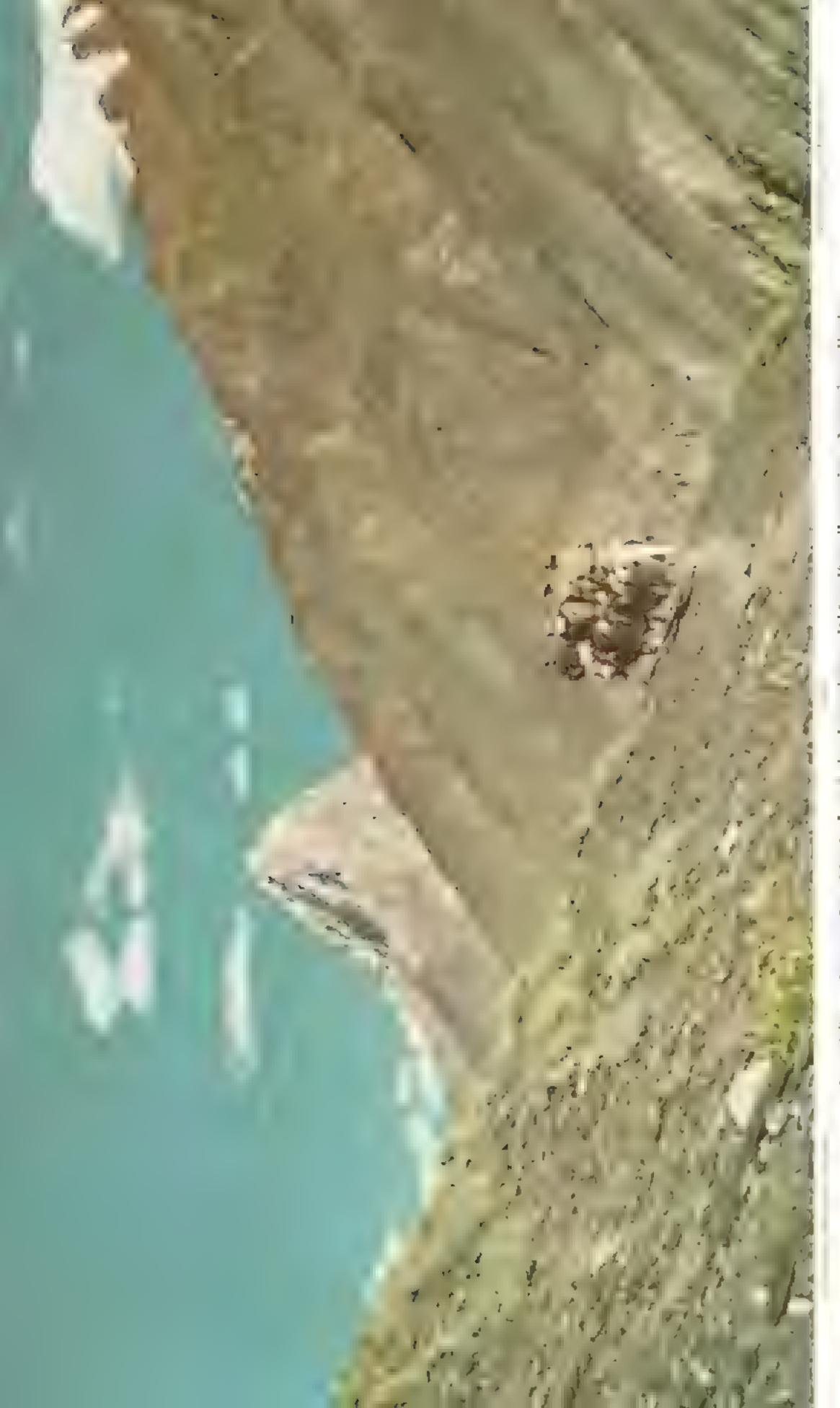
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met our first yaks, great porcletors animals with slangey cours, sure-footed as goods on name we mountain paths. We spent the night at Nurss, a tiny callage at 10,500 feet, sleep by near a but bubbling numeral spring (p. 686).

Pack yaks replaced our banging horses the next morning. For four hours we forded the Oxas, crossing eight separate streams in the mile-wide river bed. The water was swift and nessend, and the animals staggered and strugg on to keep their feet in the mappe current. The water frequently came for above our stirrups, and we balanced our feet on our horses' necks

An hour beyond the ford we came to Surhad, the last military post in the Wakhan. The commissar greeted us warmly and sed us to a pleasant grove on a mountrinsule.

Eating Fresh Peas Shoeses Natives

While Jean napped, I took a stroll through the viltage. To my amazement, I found a garden full of green peak. It had been days since we had seen green vegetables. I bought peak, yak butter, milk, and a chicken, berrowed a pun, and seturned to our grove. I built a fire and went to work.

When Jean awoke an hour later, or thousawns study—fried chacken, fresh peas, toasted Alghan bread and batter, and a cup of cold milk. The children were horafed to see as eating green peas, and warned us, in sign language, that they would make us ill. Koshan inter revealed that these people acver eat fresh peas. They day them, pound them to bur, and mix them with wheat for bread

The commission and Mr. No-han returned with bad news. The earlier reports of lunder warfate were true. From Sathed to Miniska, the Chinese horder post, the trall had across the Pamir Hateau, at an average elevation of more than 15.0% feet. There are no villages on the way, only a few settlements of will Kitchia tribespon, contempts as of any authority. Even the commission in two years at Sathed, had never ventured outo the great plateau. He warned us the joutney would be deficult and thengethes.

If we wished to risk the trip, he would belo us. But he stressed the cauter and suggested that we cross Bar whil Pass southward into Pakiston. I left the lecision to Jean. She knew the dangers and knew her own strength, Dal she want to try the journey over the Panir (Daliz) Pass?

"With that tried chicken under my belt I can go anywhere" she laughed. "Why are it you men sitting around talking when we should be package?

The countiester smiled and shook her band.

The commissar says he is proud to know your kashan translated. The will come with us named for

We statted out at dawn the next day. The trail from Surhad times straight up, over paths of shifting shale and around rock chimness. In some places the path is laterally stack against the chit—rocks wedged into cracks in the stony wall, more rocks piled on top of them, and a thin cover ag of brush. Lew sights are more disconcerting than to see day-light through the trail you are traveling.

The Famer Pass is a series of 14,000-foot crests, inter-persed with 10,000-foot valleys. Up and down we labored, leaving our borse-and produing the gasping yaks. The considerar kept pushing his forward. We had a cangetons bridge to cross, he remarked, and must make it before dark (page 692).

We reached the bridge at 5 o'clock. It was cloud 50 feet long, with a drop of 50 feet to the raging river. We crossed one at a time, leading our animals, while the stracture swayed and creaked. One yak best his footing, and the bridge brached frighteningly. But we made it (page 688).

Entryland by Mountable

We were soon on our way down the trail. The mountains des were masses of wild flowers: plack wild roses, showy daisies, candelons, butterouss, booming thisters, and great patches of eddweiss. The son went down and a full moon rose, buthing the whole scene in an unreal, golden light. It was fairyland,

As we plothled on, how after hour, menand animals reached the point of exhaustion. By 9 o'dlock we were ready to skeep on the rocks. Mr. Kashan asked the countissar when we would store.

"He says there is a kirghis camp a few miles ahead," he translated. "We may teach it by midnight."

I looke last Jean. She lift her his

"Jespets," she breathed, "Why aid I make that fooleds sherely back at Sarhad? Now I've got to keep up."

We reached the tamp an hour later. As we halfed in front of the two yards (circular tents) which appear on the map as Langue, the commissar's Lorse dropped dead.

We slept that right in a fest-walled Kitghiz yest, with a described numbers of two Kitghiz families. A fire of yell charg barned on the dist floor. Despite the 12 000-foot altitude, we were warm and comfortable. In the morning we checked our pulses to see how we were reacting to the extreme leight, and found buth our hearts beating at 110 a minute: of erwise, we guided our ill enerts.



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Cross-legged in a Kirghiz Tent, Franc Saur Pate His Life in Rai van Care

When tending take blocked the American in the audit, esteed backed the Same's level to the form of the first of the first

termed, but he insisted it was only a

I to meet the two messengers return in bringing some fiere in the schisper ma parky. I am and I dozed on fail of worm

Reasoned to had our wrist to rear lized their control but K shan dro to I the our of but I he beingles at a sor of lad their control but I he beingles at a trabes or if this tensor her better. The area beyond of the spread men had been killed there is if a sor our lines had been killed there is if a sor our safety beyond Bozai Gumbaz. He is too we turn had.

It is and I held a conference of our own We list at our determined to work the Suctions burder. We were only two slaves from our goal. It was obviously dangerous to go on, but we had known we might face danger. We would go or

I told k slum of our derision. He was miserable

There is great danger," he said. "These tribesmen have no respect for life, at a eyest

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Ruhman Qui Accepts a Trust

I have I have the considered it in fast the way. A for the sit person on he agreed to a suppret for me while I talked to Ramman to I the Kuzhiz leader.

Ribbara Qui speaks Persian, Russian, i., has Urna, and Turki in addition to the Kinday linest, and he can read and with a Fersian and Russian. He can even spell out a few words of English. He has a frank in the trusted

"We have traveled more than II, and so is not be a real or in the middle of the two days also for a real we have so aster. Our even we being I Wayne on live even in your first on live even in jury or in six is you will be a real or in your in six is you will be a real or in your in six is you will be a real or in your in six is you will be a real or in your in six is you will be a real or in your in six is you will be a real or in the six in your in six is your will be a real or in the six in the six in your in six is your will be a real or in the six in



A Piczar in the Clothe Traces on Agendal Freil The right Wakkan Corridor Mr. Shor, In Kabu, contens with Sved Killin Khan Kontton Aichan in Speech director (page 6"3).

with the Chanese border, we will pay what-

the tall Kirgh's emiled and spat both his waters on home

"I accept your trust," he declared. "I will be responsible for your lives. I can accept no pay. You are one guests."

Receipt for Two Shars

Rechan was not happy atout the arrangement, since he felt personally responsible to a responsibility. We agreed to give him a letter absolving him of all responsibility. But first he wrote a bull page of Persian . It is presented it to Raiman Qui it in Killing the fixin tend it a mility then signed at Nosban tacked it into his a second

"What was thyt?" I asked.

"A receipt for the two of your" K - or

We all tahman Qul again to let us pay him. He refused. Then Jean had an deal from her begange she took a lapel which and pressed it into the Kirghic's big hand

"Tell him," she said to koshan, I - 4

& for his water

With a smile and a bow of thunks the chirf accepted the gif

We had a pleasant fuewell dinner with Kosban, Rastid, and the coursessar. We had

covered some rough ground but ther, and the next morning, when we said got I bye at dawn, at was with genuine regret

Our new paide, Thuh Waldah, looked like a real desperado—tal, and slender, with drooping bandleher mustache and brilliant black eyes. With him came two yak pullers

Rahman Qui rame to see us or, and he seed Tilub Waldah haddled for a best waispered conference. Then we were off across
the grassy plain. The yak pullers prodded
their lumbering animals into a rapid god, and
we were soon out of sight of the Kirghiz camp

Yo hour from the camp Tiluh Warden pointed out our path in sign language, and judicated he would ride the flank to watch for danger. He loyed off across the plain, claubed a low ridge, and disappeared.

Speeks in Johnity

We had an unranny feeling of being remarkably little and above. The great emptiness of the Pamirs spread arm not us, positioated by jutting peaks. There was no sound
except for the steady pace of our horses and
the measured breathing of the yaks. Jean
and I drew closer breether sicing boot to
loot. The pilles fed away as we code on late
that incredible science (page (72))

Carefully we scanned the crest of the flank-



One has one, the second Continues Comes a Tautury Bridge Springing of the first has a second or the first and the second of the first second or th

Paved with Lonse Stones, the Navroy Trail Threatened to Slip into the Ottos.

Journal of Rocket, who follows your Shir, hardles like with hardlest the end of the should have been feel above the river. At this her the categorie to the river.

ing hids but not once did out as trider appear. The yak pullers plotded salently behind us; the empty distance stretched about. Somethow the feeling grow on me that we were the only people left in the world, that the civilization of skyscrapers and automobiles was all a cream. There was not only else nothing else in the world, just the two of us

As if in knower to my thoughts, Jean reached over and took my hand. Until dask we rode boot to boot and hand in hand, two

ting specks in an infinite space

Tilah Waltaub rejoined us at dusk. We camped near a little stream, brewed tra, and shared a flat wheel of Eightz bread. Our Kirchiz friends stood watch white we slept.

He pert day passed in the same fashion. Hours of silent progress through a silent land. Then, a few hours before sundown, one of our yak puliers pointed to a noten in the manuain wall some two miles ahead of us. Wakhjir," he said. We clapped each other on the back with joy. The Wakhjir Passend of the Wakhan. We had made it first freigners in modern times to reach China by this ancient youte. We kicked out then horses into a tret.

Suddenly, less than a nule from the pass, a low, their wheathe seemed through the evening nic. We stopped, pazzled. Our yak paliers signaled us to dismount. Still mystified, we complied, and the Kirghiz dragges all the unions into a little gully and mo-

tioned to us to join them

In a few minutes Timb Walduh Joined us At his signal we crept around a turn of the gully, and he pointed upward to the crest of the pass. Silhonetted rightest the darkening sky were three Chinese Turkistan suddicts We Looked questioningly at our guide. We tried to explain to Thuh Walduh that the soldiers would be friendly. He shock his head. He pointed to them, then toward himself and us, and drew his forestinger across his throat. There was no mistriking his meaning

We sat quietly beneath the bunk until dark. Then we mounted, and for 10 hours we code to rose the Paintes, halting only to let our dead-throd houses test and graze. At dawn we

stopped for a few liners' sleep.

When I awake I tried to figure where we might be possibly some 15 miles east and

a little south of our starting point.

By they we were scared to death. I tried to tell Than Waldon we wanted to return to Rahman Qui's camp. Whether is understood i shall never know. He simply shook his bear, and printed south to a wall of mountains.

Before noon we again reached the Oxus. here comined in a valley so earnest that we had to food the torrest half a dozen times spage 69a). We are the last of our Kirghiz bread and to iter, enalessly up the mountainside, leading our horses over shitting masses of snale which constantly gave way beneath their feet

Toward evening we emerged in a litch, given meantaln valley. A single yart stood in the grassy vale. A flerce-looking Kirghia, an ancient of le chad ed in his arms and a king knife lunging bare at his suite, stood beside the low door. Tilah Waa jah spake to him, and we heard the name "Rahman Qul" half a dozen times. Finally the Kirghia signale last o darmount and led the way inside.

All the Witch Wanted Was Everything

The interact was duty and bursen. A buby sat on the product bear the fire, and as we entered, a little girl came from behind the reed partition. Behind her came the most unpleasant-looking woman we have ever seen, a wrinkled hag with the fare of a witch. She greeted our refutant that with a blast of anvertice. I wen the mapse name "Rahman Qui" had no effect. There was no question about our being welcome—we weren't! But there was no place else to go, so we sat down with still smiles and warmed ourselves.

I affered everyone eigarettes, and the lady demanded the test of the pack. I lit her signrette, and she demanded the box of matches. We washed, and she soutched our soap, Jean put a southing cream on her face cracked and smallen from exposure, and our hostest demanded the rest of the jac. We opened this of ment and theese from our vanishing emergency rations and shared them. Grandmother insisted on the balance of our stock. She didn't get it.

Avarior sometimes brings as own reward. I truck a flash picture of the culdren and ejected the stell-hot bulls on the floor. Ohe scrptisitive friend gnored my warning and snatched up the red-hot bulb, acquairing a slight burn When I treated her hand, she demanded the

REPORTED FOR PART

After our meager supper, Jean and I crawled into our sleeping bags and bay talking solly. Things backed but I We didn't know where we were going. Our present bosts were obviously unfriendly, and the next ones night be worse. Our experience at the Susking Looker had shaken us badly. Since we were traveling with the Kinghia, anything that happened to them would undoubtedly happen also to us.

That night, sleeping at 17,000 feet. Jear was bothered by the altitude. Her board postuded so that she could not sleep lying.



Join Stor Learns Mount Yart Life from a Kendie Panish in Largar

Location of the Control of the Contr

1d propped against the wall.

At claim we broke an ach of ice from a little spring, washed, and made tea. Then came the head bows Talah Waldah took both on I ad a second relation of a second relation to the might would take us an across the tower-termorphism. Then we have along will surge the following the second relations.

the wind at a common or the second of the se

Above us stretched a mile-long snow field, ending its steep ascent in a wall of white nearly 200 yards high. It beased almost language he have not our suide in remed as, with gest sea that it could be done later in

to assert the V new av, he read to be neithing sport and he made it dangerous. So we rested, sharing another tan of cheese at down last har of cheese at de-

for four hours we fought our way activities of the result lieuwith to a service and a service to be a came the gangle of rupulua water

price, appress of the first trace to the test and the contract to the first trace one we shall never forget.

Standing on Top of the World

The last few hundred veries were torture. We crawled on hands and knees, closed by exhaustion driven only by the know edge that we must cross the rioge and teach a lawer altitude before dark. A right on the close could end only in death.

Somewhere we found strongth, not only to move our own tired limbs but to drag the flaundering animals behind us. Even the Lightz, born and bred on their high plateau, were gasping for breath. On we went, five yards at a time, lying in the mow and gasping between those brist advances. A few that steps, and we stood on top of the world!

We were on the crest of a great mountain range. All around us, as far as the eve cruid see, by other mountain chains, their magnificant peaks punctuating the engless distance. Exhibited and gasping, we still could not take our eyes from the panoranes of beauty.

For half an hour we rested and stored in awe. We were too t red to go ou, but we had to go on. There was no trad about of us, only snow. He being our horses by the bricks, we slid across the edge floundering and slip-

ping downward through the snow

Two thousand feet below we reached an incline of shale, and worked our way crab-wise down and a ross it. I one after dark we gauged a shelf out of the shale and slept through a fach bliceard.

Pakistan at Last!

Another day of slicking down shifting shale, still not knowing where we were bound. On we went, always down. So dealy we connobed a narrow wall of tack and sow in a matter valley for below us a square stone fortness, with the flag of Pakistan flying in the breeze.

Our guiles pointed to the fort, "Kalam Datchi," he said. I checked our maps and madiy found it, formerly a tiny British out-

post in the princety State of Hunza.

The tail lakistand solviers of the post spoke a lattle English and took to that the clarge of Megar, five miles down the valley had a quest bungalow. We harried outward, and two hours later were warmly greeted by an English-speak og telegraph operator and the mayor. They were not pleased, however, to see our klather guides. We paid them generously, hade the magrateful jarewell, and they started back for their lamb haveland.

After a warm moral and a long night's sleep we got out our maps, plotted the course we had come, and assayed the test its of our jour ney. We were still only a day's ride from the Chinese Turkistan fromber. It would not be d'hierit to organize a new carman in Human and continue our journey. We laid succeeded in our prime goal of traveling the Wokhan corridor from end to end—the first foreigners in modern times to make the journey from west to east

Two discoveries were left for us. The first came when, platting our route on our maps.

we discovered that the final pass we had crossed was the towering Debli Sang, more than 20 000 feet high! We had reached that great height without knowing where we were and without object equipment of any kina (pages 681, 696).

The Legend of Rohman Oul

The second discovery left us a little surprised. It came the day after our arrival in Misgat. The mayor called on us.

These king tiz men you come with," he

said, "belong tribe of Rahman Qul?"

"Yes," we notified. "Rahman Qui is a very good friend of outs, a wonderful man."

The mayor shook his head. "Ranman Qui very bad man," he said finally. He rob caravans, kill many people. Very laid."

We state I in dissellef. And then he tobits a few tales about our benefactor. Two years before, the mayor began. Rahman Qui and his trice had crossed the Russian Panur-There they had rol bed a curavan and murdeted every man in it. Pursued by the Russians, they had fled into Chouse Turkistan and taken up residence man the bruikt post of Manaka.

Rabonan Qui bud become a close friend of the commander of the little Chinese Lorder currison. Less than a month before we met him be had invited the commander and hisgarison of eight men to a lunch on a Mohani tedan festival day. While the Chinese were eating, Q d's tribe-men had stolen into the tent behind them and mordered every man cold blood, the amyor reported. They had booted the garrison of guns, ammunition, hotses, and supplies, and fled across the Afghan border to resume residence at the Pamir Platear.

"For many years this Rahman Qul murd of and tob people," the mayor insisted, "Very bud man. Why he manufer you?

I remembered the night we talked with Kahman Qul in his smoky york, light up on the great Pamirs.

"We just our fives obtine in your hands," I had said. And his answer "I accept your trust."

"Why he po murder you?"

thoked at the mayor and shook my bend. "I must han w." I hooked at Jean, I could see she agreed with the. We slate't know. Irobaldy we never would know. Isst to us. Rainman Dul would always be the man who saved our lives,"

*For additional articles on Africanistan, Chinese Tarkestan Seviet Central Asia and hunta, see The tases throughness Musicanis Camalative Index 100 100

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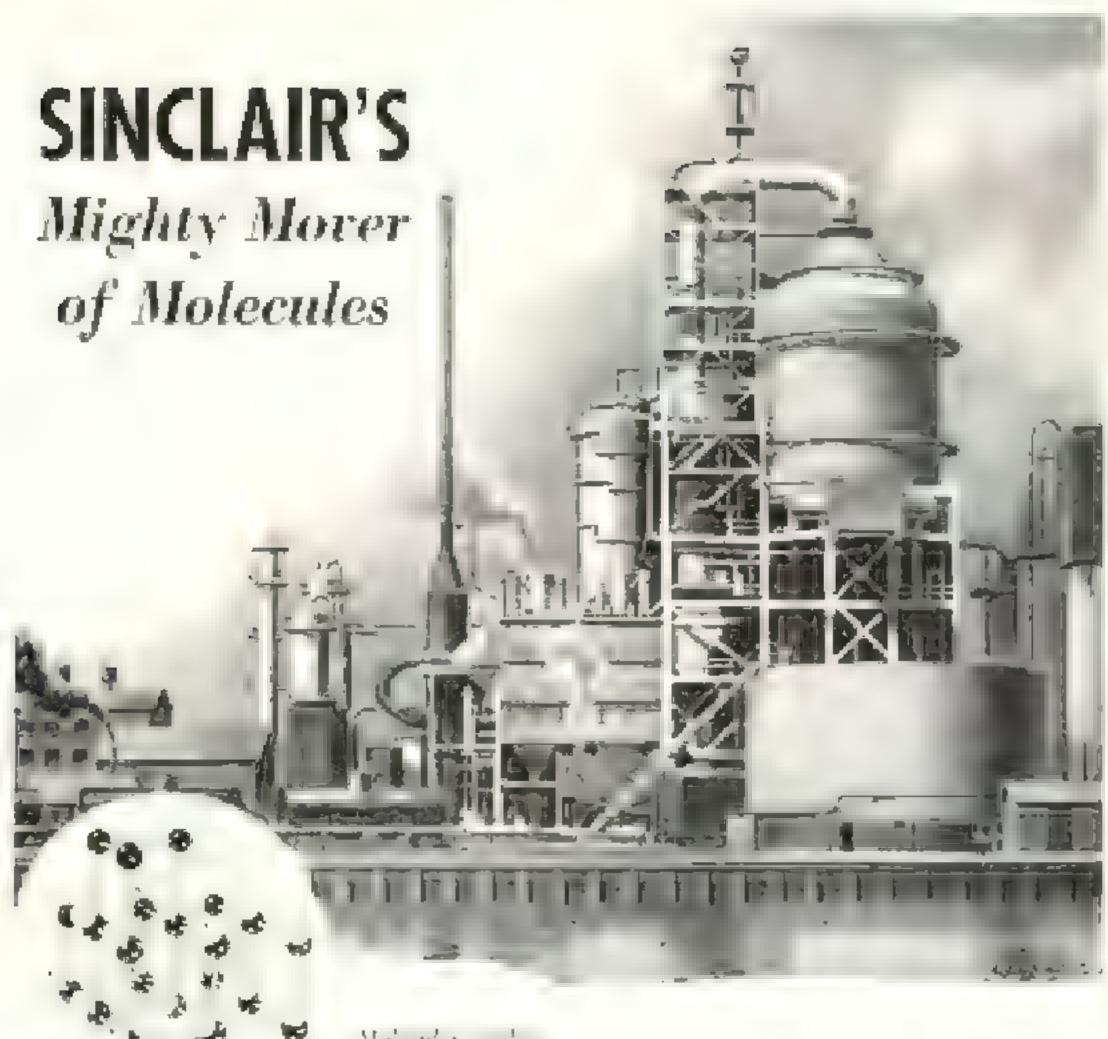
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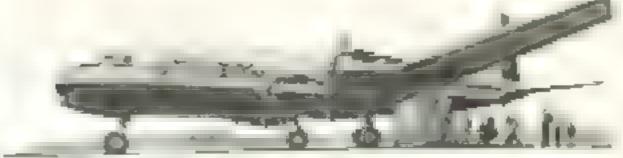


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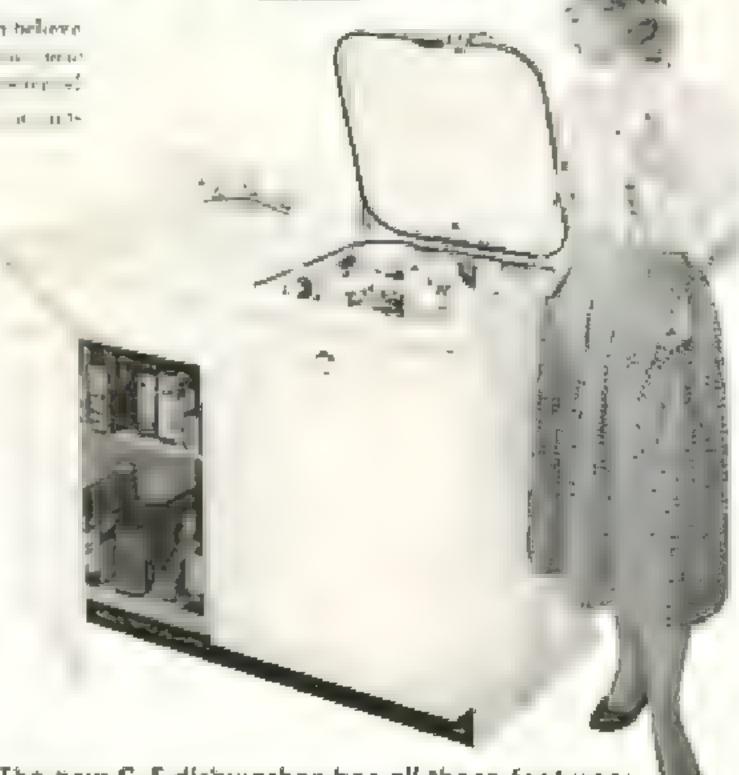
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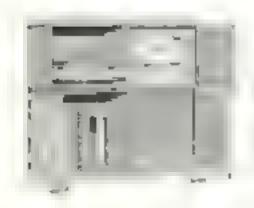
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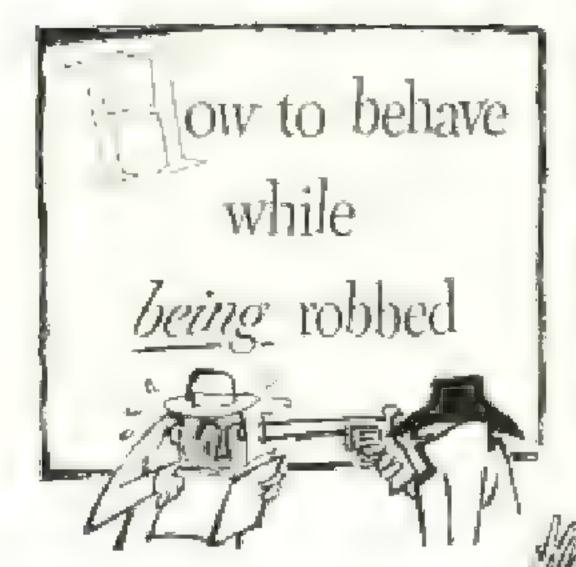
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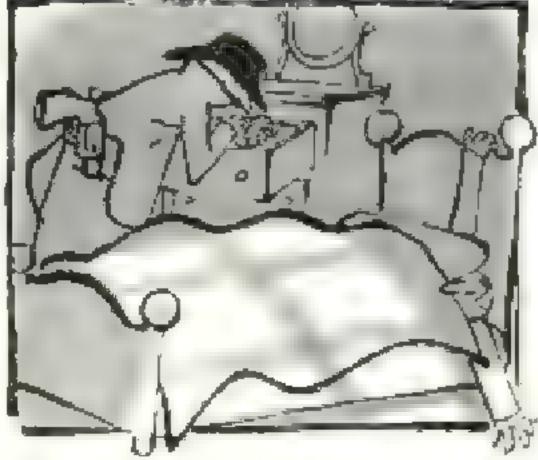
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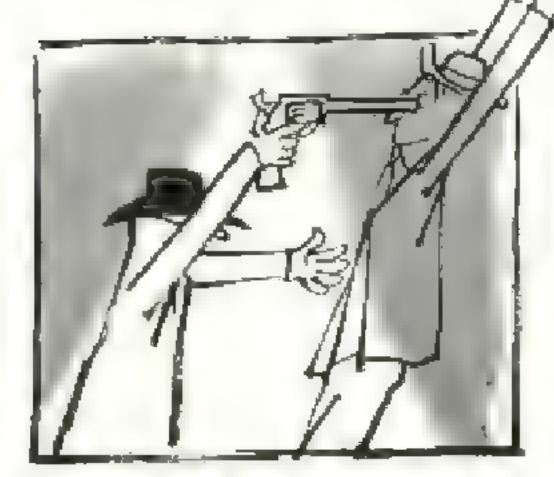
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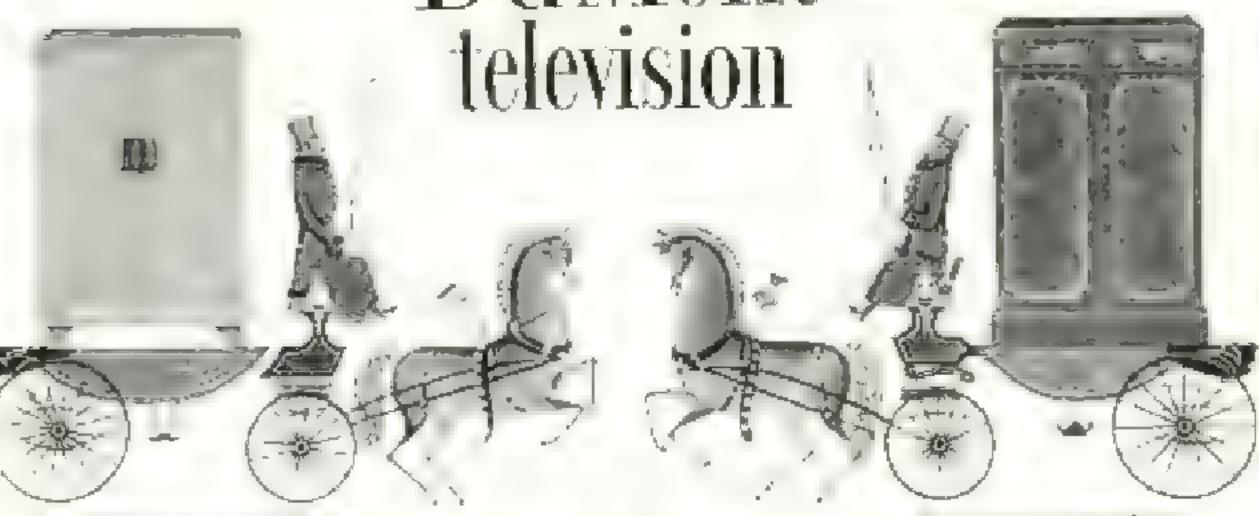
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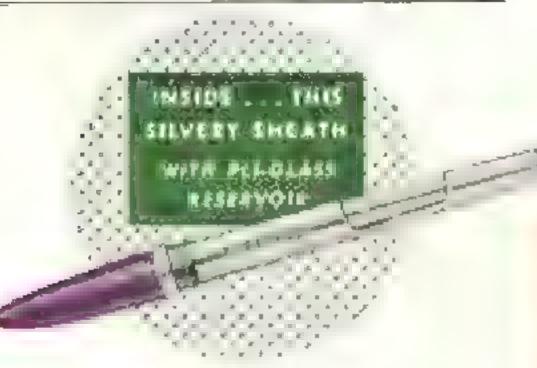
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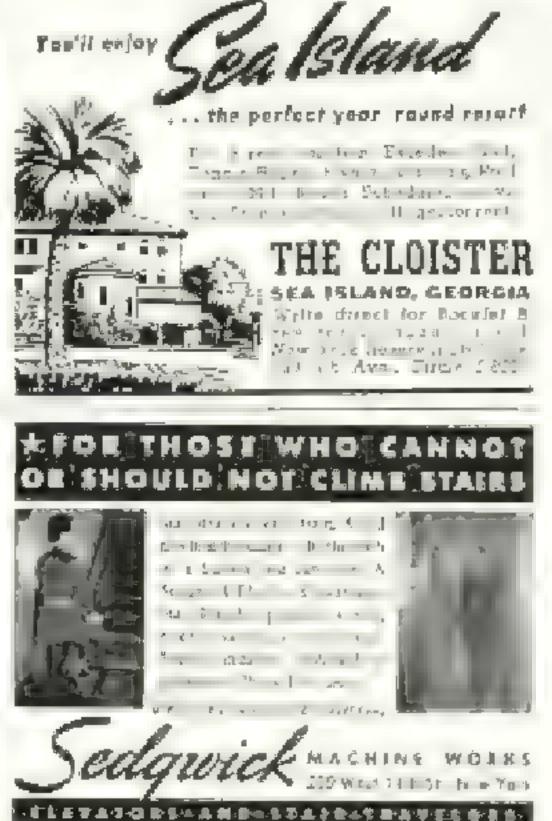
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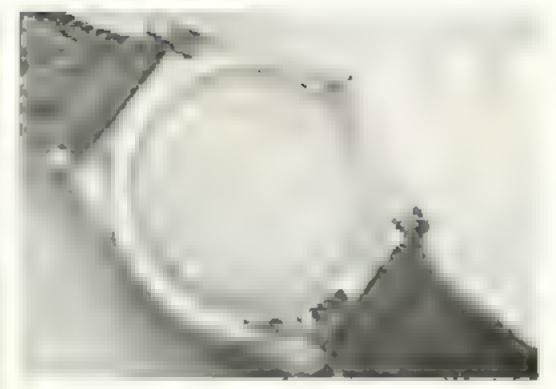


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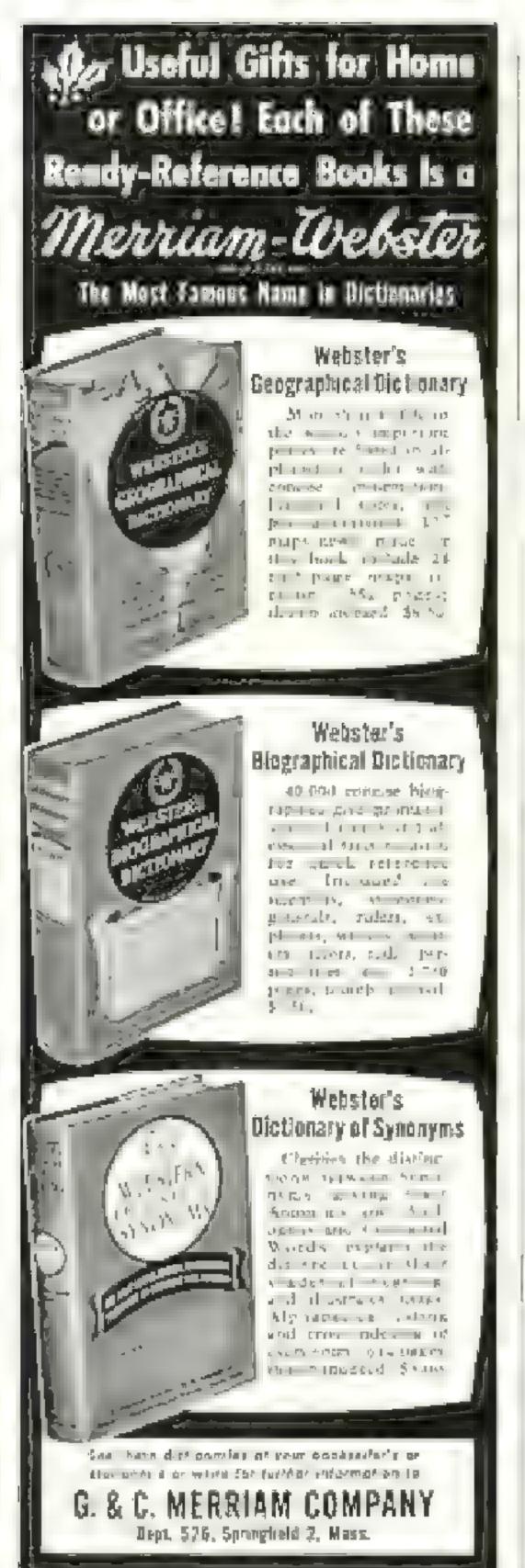
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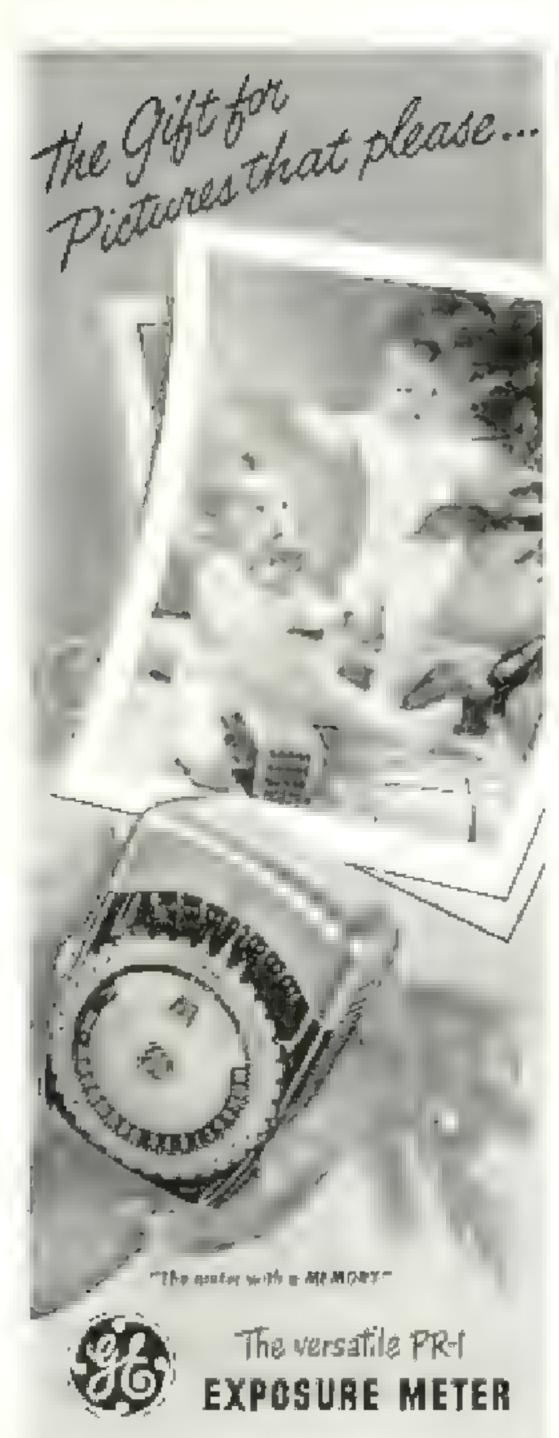
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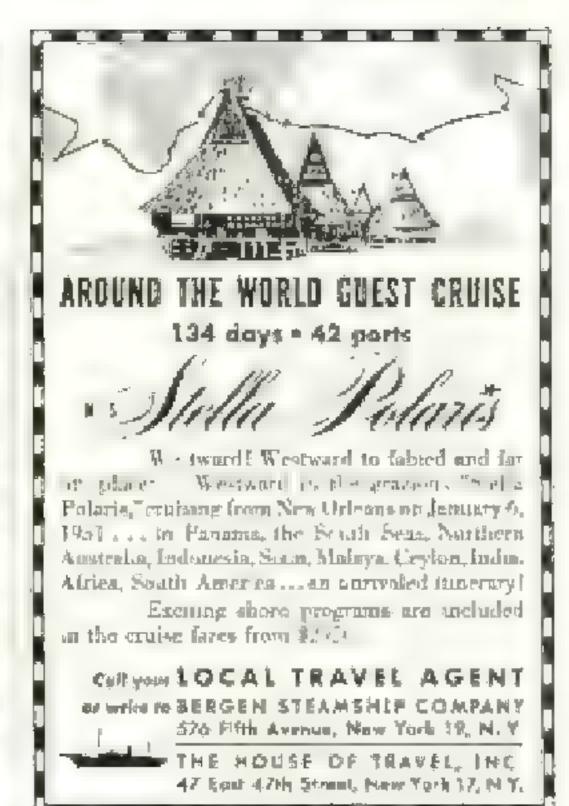
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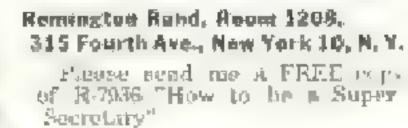
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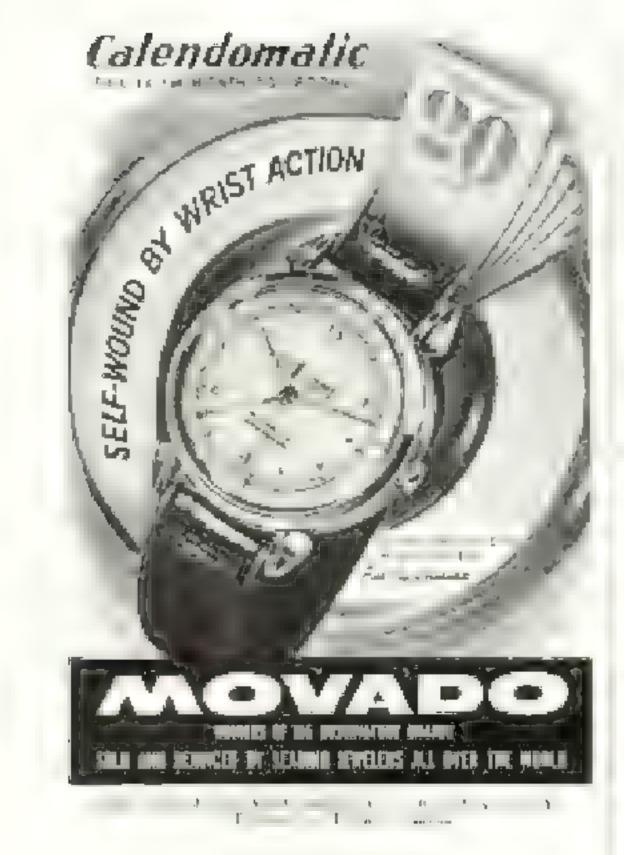
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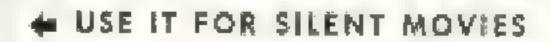
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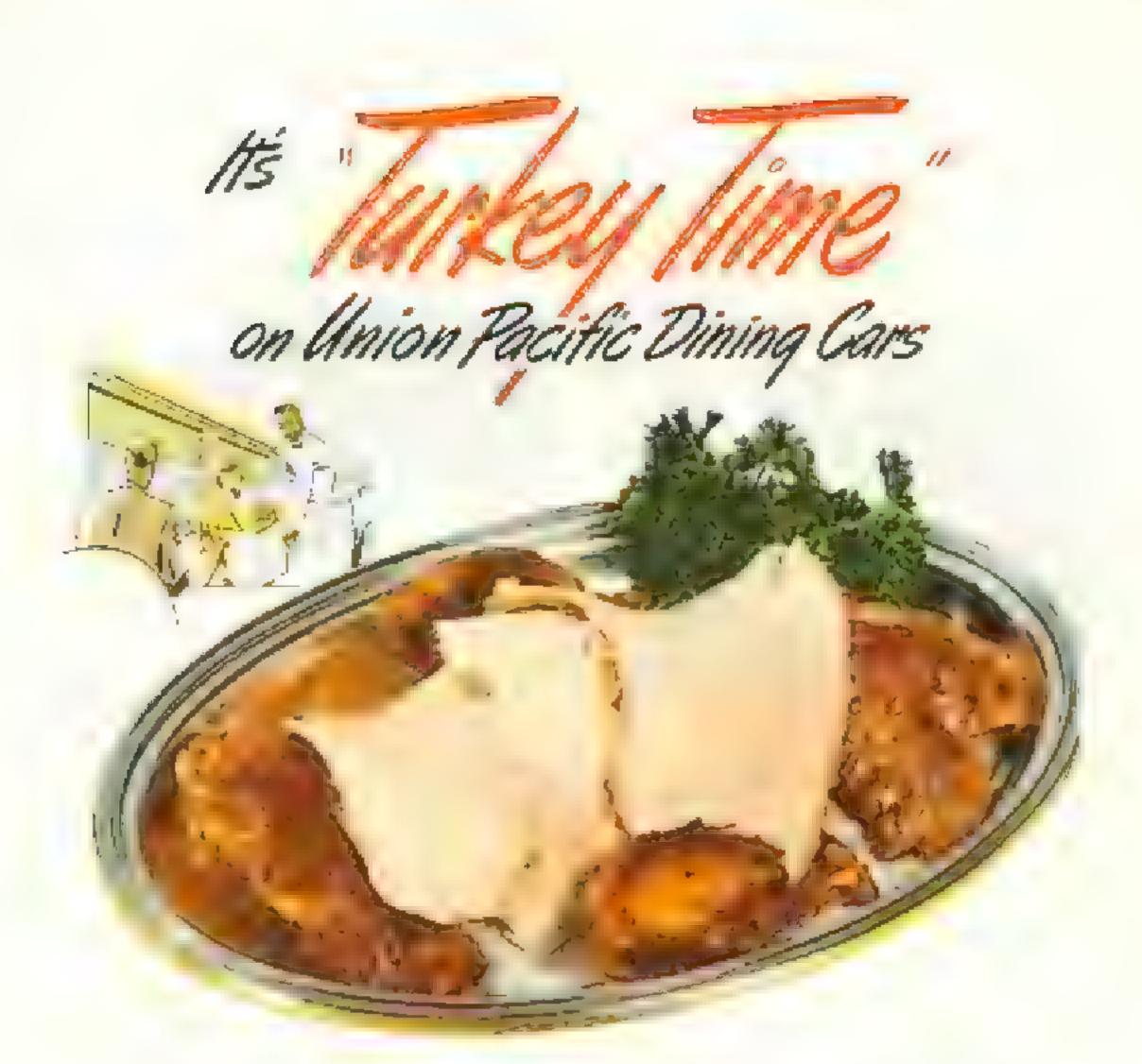






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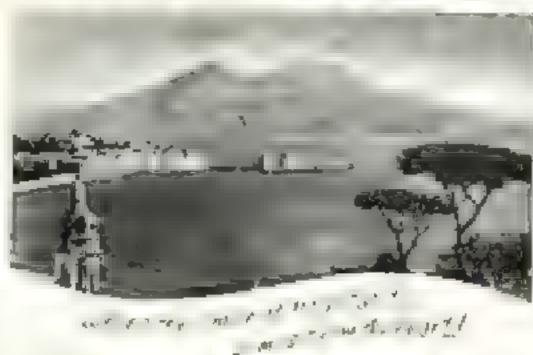
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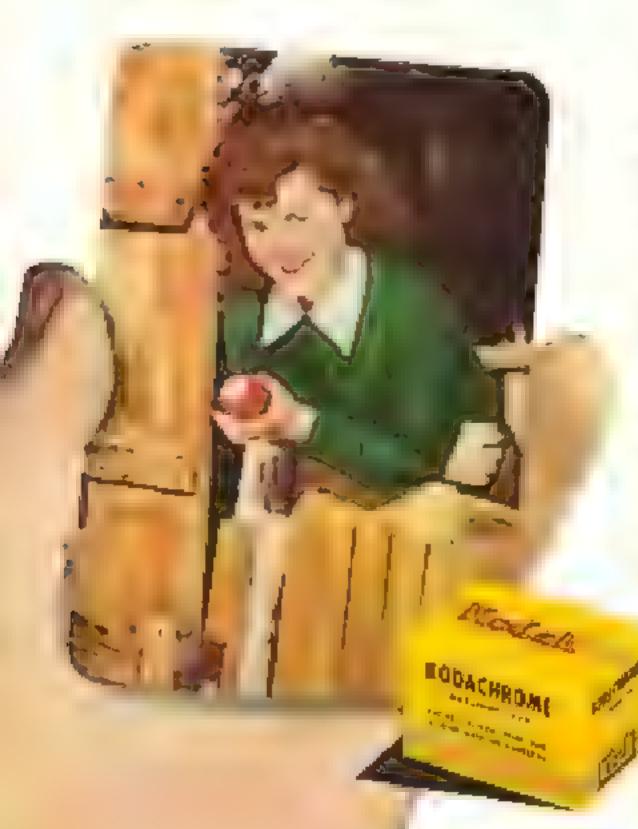
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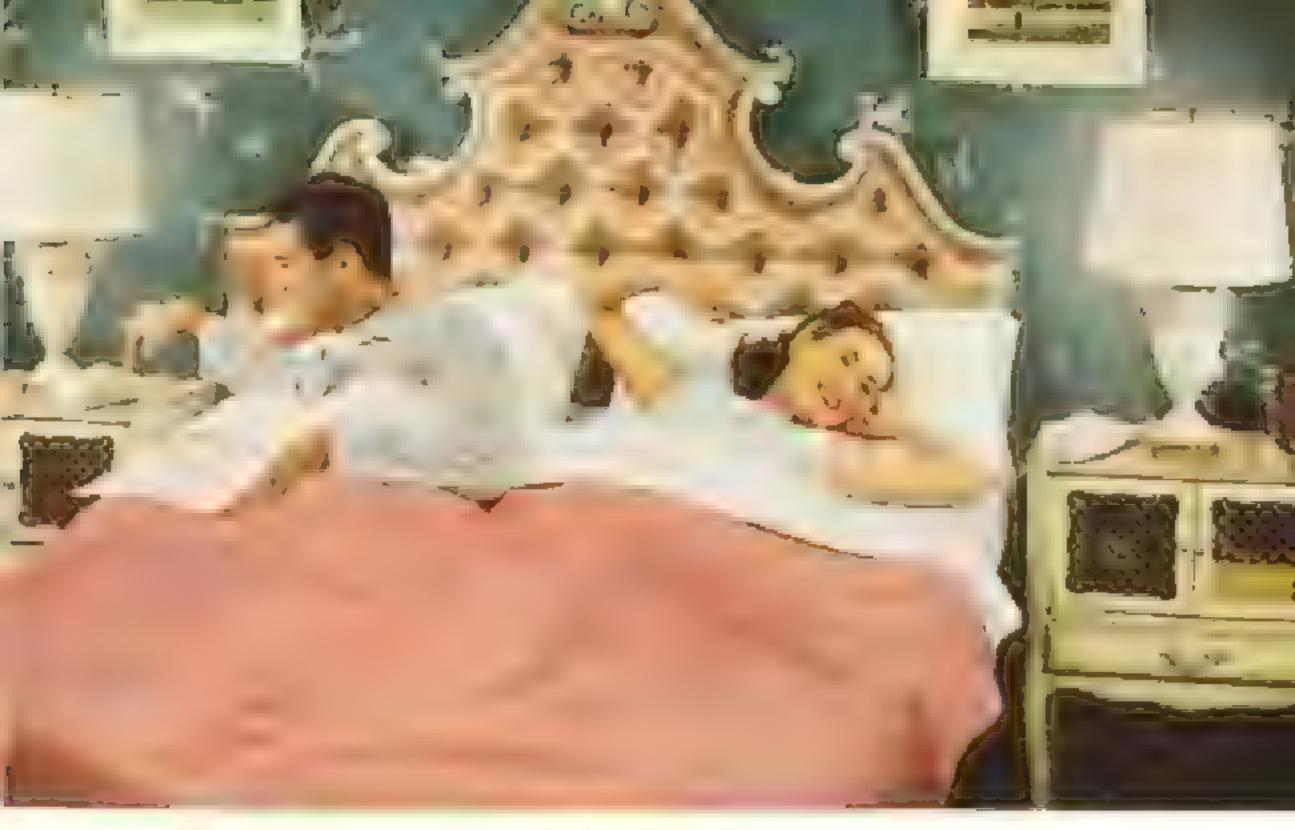
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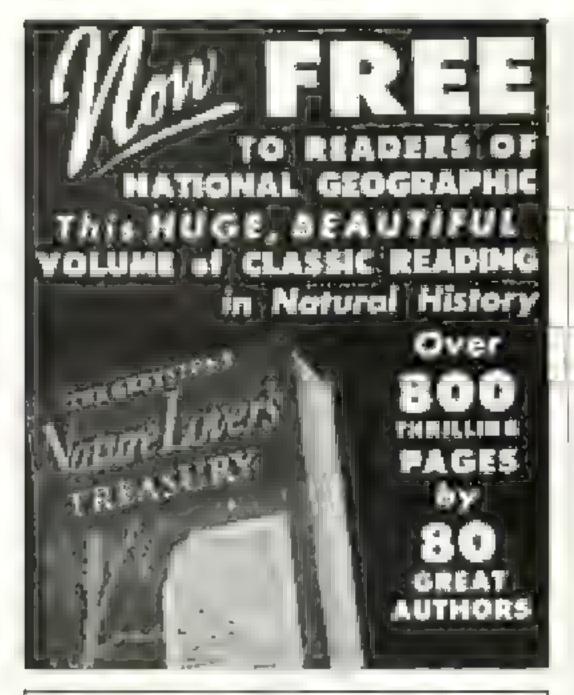


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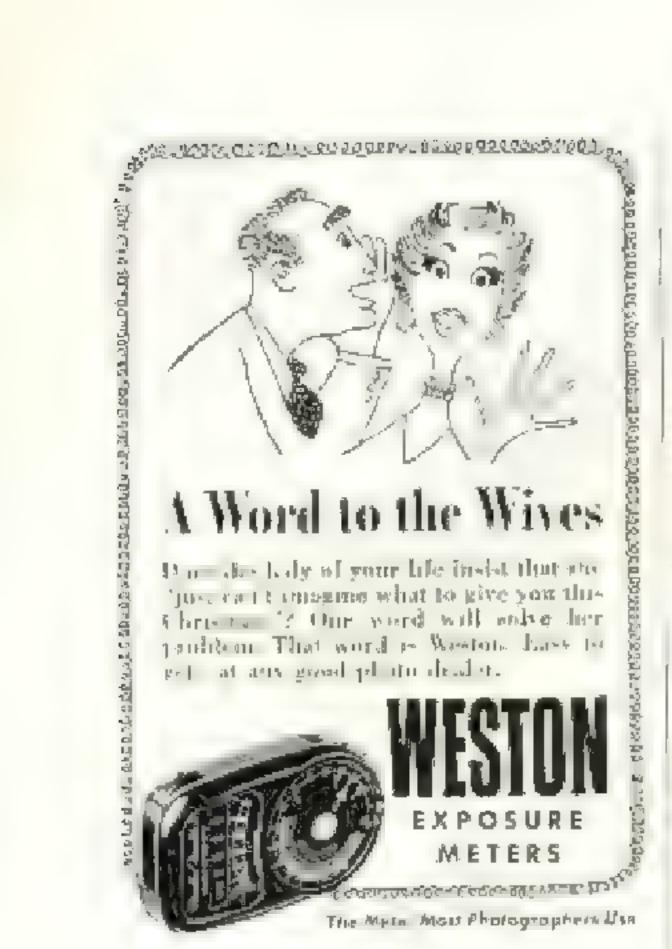
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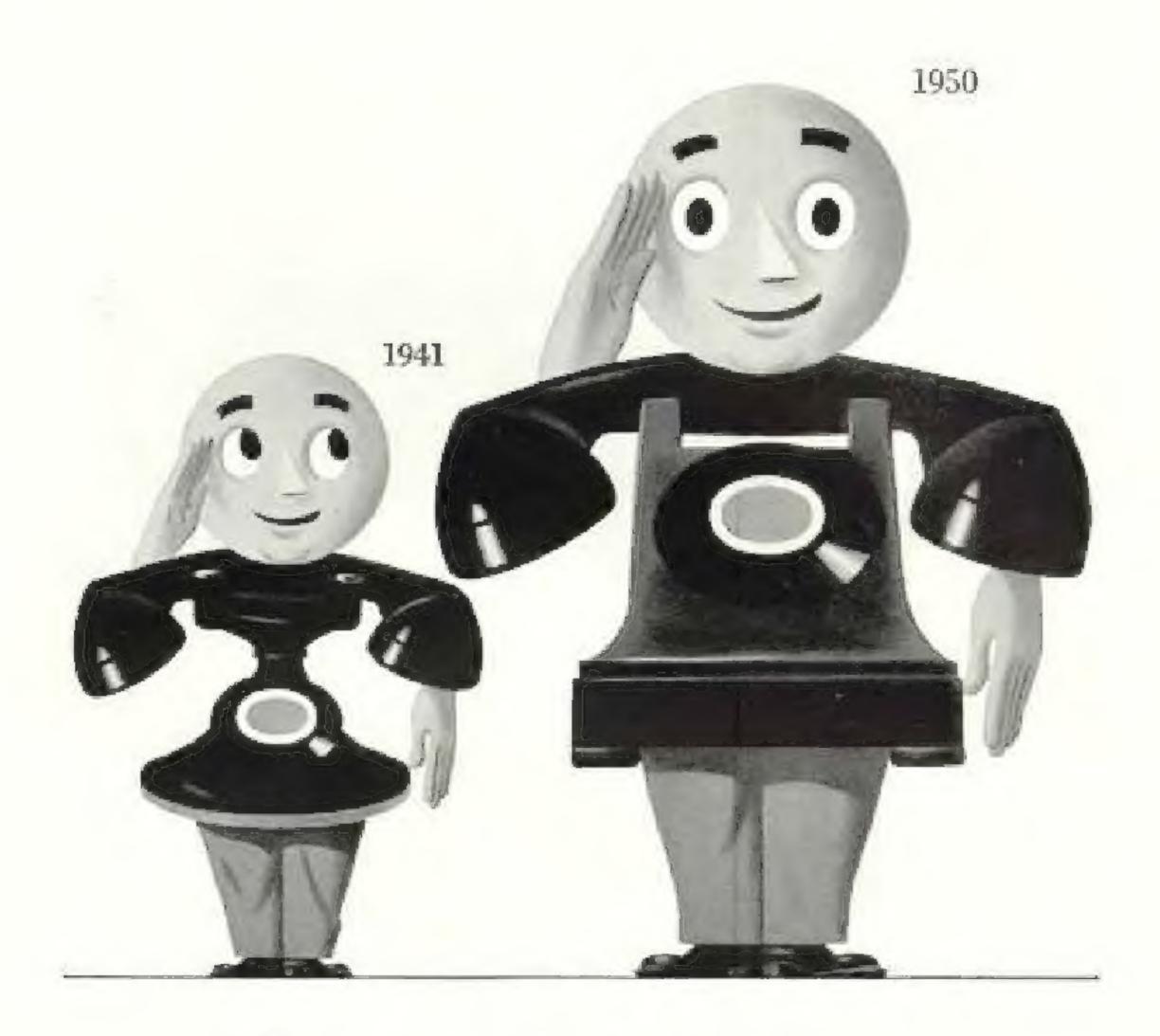
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